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March 23, 2012

Ms. Kimberly Tisa
Environmental Scientist and PCB Coordinator
EPA-New England, Region 1
5 Post Office Square
Suite 100
Mail Code OSRR07-2
Boston, MA 02109-3912

Re: PCB Clean-Up and Disposal Plan Notification
University of Massachusetts – Amherst
Physical Plant Renovations 2nd Floor
Room 230A
PCB Removal and Disposal Approval Under 40 CFR 761.61(a) and (c)

Dear Ms. Tisa:

On behalf of the University of Massachusetts (UMASS), ATC Associates Inc (ATC) is requesting review and approval of the following PCB Cleanup and Disposal Plan for PCB bulk product waste (original caulking) and PCB remediation waste (impacted building materials) at the Physical Plant Building located on the UMASS campus in Amherst, Massachusetts.

Specifically, this plan would address removal of PCB caulking, window assemblies and impacted building materials within Room 230A which is part of an overall renovation project to the 2nd floor area of the building.

The following information has been provided as support to our request:

I. Site Background

The Physical Plant Building and addition, constructed in 1960 and 1967 respectively, houses the Universities Physical Plant Department, Facilities Planning Division, Campus Planning Division, Housing Maintenance and Operations and the Campus Bookstore Annex. The intent of the renovation project is to upgrade 12,800 square feet within the 2nd Floor of the building that houses the Physical Plant Offices. The overall project is scheduled to start on June 28, 2012 and be completed by January 1, 2013.

As part of the project, the windows units within Room 230A will be removed and replaced. Testing has indicated that the existing interior window caulking contains PCB's >50 ppm which will require removal under TSCA 40 CFR 761 Regulations.

Refer to **Attachment A** for the Drawings that show the location of Room 230A within the building.

II. Remediation Team

The Remediation Team shall consist of the following parties:

- UMASS Facilities and Campus Planning
- UMASS Environmental Health & Safety
- Fennick McCredie Architecture – Project Architect for the Physical Plant 2nd Floor Renovation Project
- ATC Associates Inc. – Environmental Consultant for PCB related activities
- Remediation Contractor – To be determined upon Contract Award

III. Characterization – Source Material

ATC collected bulk samples of the interior and exterior caulking and glazing compound located on the window and storefront assemblies affected by the forthcoming renovation work at the 2nd Floor to determine levels of PCB's present. The 2nd Floor is made up of both the original 1960 and 1967 portions of the building.

A total of sixteen (16) samples were collected and analyzed for PCB. The samples were analyzed by TestAmerica Analytical Laboratory, using EPA SW-846 Method 8082 and Method 3540C. Refer to **Attachment B** for the PCB analytical reports. Refer to **Attachment C** for a summary of ATC's source material sampling.

Laboratory results indicated one (1) sample to contain PCBs at or above the associated TSCA defined level of 50 ppm. That material was the interior caulking (130 ppm) located between the metal framework of the window and masonry/block opening. A 2nd sample of the same caulking yielded a PCB result of 40 ppm. However, both samples of the caulking appeared to be visually similar and "homogeneous" and therefore will be managed as >50 ppm PCB bulk product waste. It should also be noted that the caulking and glazing compound was also determined to be asbestos-containing which will require that entire window unit (i.e. frame, glass, etc.) to be managed in compliance with applicable PCB and asbestos containing material (ACM) management regulations.

Five (5) samples yielded detectable PCB's ranging from 0.73 to 6.5 ppm. Those materials included:

- Interior Door Caulking – Storefront Assembly (1967 Section)
- Exterior Door Caulking – Storefront Assembly (1967 Section)
- Interior Window Glazing Compound – Metal Windows (1960 Section)

Each of these materials was homogeneous to themselves as far as appearance and use, and based upon the results ATC concludes that these materials are not a PCB Bulk Product Waste. The detectable concentration of PCB's in the caulking and glazing compound were most likely a result of the manufacturing process and the material is considered an "Excluded PCB Product" under 40 CFR 761.3 (iii).

Nine (9) samples were None Detect. Those materials included:

- Exterior Window Caulking – Metal Windows (1960 Section)
- Exterior Window Glazing Compound – Metal Windows (1960 Section)
- Exterior Window Glazing Compound – Wood Windows (1967 Section)
- Exterior Window Caulking – Wood Windows (1967 Section)

ATC reviewed the laboratory narratives associated with the samples collected for the source sampling to evaluate the data's usability. ATC reviewed detection limits and surrogate recoveries for each sample. A review of this information shows that for a two (2) samples the surrogate recoveries were outside of the target range. This type of result is not unusual when analyzing weathered sealants. ATC does not believe that not meeting surrogate recovery requirements adversely impacts data usability.

IV. Characterization – Substrates

To evaluate if interior window caulk identified as PCB Bulk Product Waste has adversely impacted adjacent building materials, ATC collected bulk samples from building materials located from 0.5 and 4 inches away from interior window caulk identified as a PCB Bulk Product Waste.

Samples were collected from the surface to a depth of 0.5 inches from the masonry/block window surrounds where the PCB caulking was present. The surround itself acts as a wall return from the existing window frame which extends 6 inches out to the inside face of interior wall on three (3) sides of the window opening. Samples were collected on the interior masonry/block and mortar at ½", 2" and 4" intervals.

It should be noted that a metal plate covering for the HVAC ductwork is located at the sill portion of the window units. Visual inspection indicated no caulking to be present between the metal plate the window sill.

Prior to collecting these samples, ATC removed the caulking material from the joint adjacent to the collection points with hand tools. Samples were collected from the surface to a depth of 0.5 inches. A wire brush was used to lightly clean the surface of the concrete/block to remove any debris. ATC used the sampling procedure outlined in the EPA-New England, Draft Standard Operating Procedure for Sampling Concrete in the Field, December 30, 1997. This procedure entails the use of a hammer drill to drill a hole into the concrete, generating a concrete powder that is then collected and submitted to a laboratory for analysis. The hammer drill bit was decontaminated between sample locations.

A total of eighteen (18) samples were collected. The samples were analyzed by TestAmerica Analytical Laboratory, using EPA SW-846 Method 8082 and Method 3540C. Refer to **Attachment D** for the PCB analytical reports. Refer to **Attachment E** for a summary of ATC's core sampling.

At the $\frac{1}{2}$ " interval, laboratory results yielded detectable PCB's ranging from 0.41 to 1.65 ppm. At the 2" interval, laboratory results yielded detectable PCB's ranging from 0.248 to 0.88 ppm. At the 4" interval, laboratory results yielded detectable PCB's ranging from 0.16 to 0.83 ppm.

Based upon this data set, ATC concludes that interior masonry/block within $\frac{1}{2}$ " of the existing caulk joint is considered PCB Remediation Waste.

ATC reviewed the laboratory narratives associated with the samples collected for the core sampling and concludes that all data is usable. ATC reviewed detection limits and surrogate recoveries for each sample and all samples were within acceptable target ranges.

V. Extent of Contamination & Exposure

Interior caulking samples from the metal window units at Room 230A were determined to contain PCB's >50 ppm. Additionally, the caulking and glazing compound on the window units also contains asbestos. There are a total of twenty-four (24) window units located in Room 230A and based upon the sample data, ATC assumes all interior caulking located on the window units to contain asbestos and PCB >50 ppm.

Based upon the data of the core sampling, ATC is assuming that interior masonry/block window surrounds contain PCB's at concentrations ≥ 1 ppm within $\frac{1}{2}$ " of the caulk joints in all twenty-five (25) windows units.

Current human receptors who are likely to be present at the Site or in the surrounding environment, and who as a result, would likely be exposed to the PCBs at the Site are considered to be faculty, visitors, construction and utility workers, and trespassers. The current likelihood of humans coming in contact with PCBs is considered to be moderate since there are no current engineering controls to limit exposure. However, the proposed PCB Bulk Product removal, coating system and interim containment is believed to eliminate human exposure to PCBs at the Site.

VI. Remediation Objectives

The plan presented herein will consist of remediation of the source material, window units and installation of a physical barrier (i.e. coatings and gypsum board/drywall) on the remaining masonry/block window surround to eliminate the direct contact exposure pathway of any remaining residual PCB's. In general, the planned approach includes:

1. Caulking on the window frame will be removed and disposed of as >50 ppm PCB waste.
2. The window unit in its entirety (i.e. frame and glass) will be removed and disposed of as >50 ppm PCB Waste.

3. Residual PCB's on the masonry/block wall return to remain shall be encapsulated with a protective coating (after caulk and window removal). The coating shall be applied on the window surround on 3 sides of the frame and will extend from the jamb area to the inside face of interior wall (approximately 6 inches in depth).
4. Gypsum board/drywall will also be installed over the window surround as both an added enclosure method and an architectural finish.

Refer to **Attachment F** for photographs of a typical window units that show the location of the PCB caulking and masonry/block window surround.

Refer to **Attachment G** for the Window Detail that shows the encapsulation and installation of the gypsum board/drywall.

VII. Remediation Procedures

All caulking removal and disposal procedures shall conform to the provisions outlined herein. The following summarizes the remediation requirements associated with the work:

1. All PCB abatement work shall be performed in accordance with a Health and Safety Plan (HASP) developed by the Contractor in accordance with Occupational Safety and Health Administration (OSHA) regulations, including HAZWOPER, and any other applicable federal, state, or local regulations.
2. The interior window caulking and glazing compound contains asbestos. Therefore, all work shall be performed in accordance with the federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 Regulations, Massachusetts Department of Labor and Industry (DLWD) 453 CMR 6.0 Regulations, and Massachusetts Department of Environmental Protection (DEP) 310 CMR 7.15 Regulations.
3. The Contractor shall provide all personnel with personal protective equipment (PPE), protective clothing, and monitoring equipment consistent with the levels of protection required for each type of work. Workers shall wear, at a minimum, ½ face respirators with P100 filters, water resistant Tyvek-type suits with boot covers, rubber gloves and eye protection.
4. The Contractor shall provide all drums, overpack drums, storage containers, dumpsters and related products and materials required for collecting, storing, and transporting the PCB-containing waste in compliance with MassDEP, U.S. EPA, and U.S. Department of Transportation (DOT) requirements. All drums shall meet the requirements of DOT 49 CFR 173.
5. The window units will be removed from the interior of building under full containment and negative pressure.
6. A three (3) stage decontamination unit shall be attached to the containment for workers to properly done protective equipment and decontaminate upon leaving the work zone. Decontamination of personnel and equipment is required after performance of all removal activities.

7. The work area will be demarcated with caution tape and signage at a distance to keep unauthorized workers and visitors out of the work area.
8. All materials to be remediated shall be satisfactorily wetted in accordance with NESHAP requirements.
9. Each window opening shall be sealed on the outside with double six (6) mil polyethylene sheeting and duct tape which will allow for the window units to removed to the building interior and maintain containment.
10. The window units shall be removed as a whole component (i.e. frame and glass) and placed in double six (6) mil disposal bags and sealed with duct tape and disposed of as asbestos and PCB >50 ppm waste.
11. All residual visible caulking located on the remaining masonry/block opening shall also be removed and disposed of asbestos and PCB >50 ppm waste.
12. Containerized waste will be removed from the work area through the decontamination chamber and placed in the on-site roll-off container. All tools and equipment will be removed from the work area and decontaminated in the decontamination chamber. Cloth, mops and other cleaning aids will be disposed of as asbestos and PCB >50 ppm waste.
13. The Contractor will then clean the remaining masonry/block window surround using a double wash/rinse to meet the cleanup standards under 40 CFR 761.61(a) for non-porous surfaces. Precautions must be taken to contain any runoff resulting from the cleansing and to dispose properly of wastes generated during the cleansing.
14. All roll-off containers shall be placed in a designated storage area on-site that is secured within a chained-link fenced that is locked. The storage area will be placarded as containing PCB Waste with markings meeting the EPA requirements of 40 CFR 761.40 and 761.45.
15. ATC will perform air monitoring for asbestos outside the containment area during active removal work. All air samples shall be analyzed by Phase Contrast Microscopy (PCM) in accordance with the NIOSH 7400 Method. Acceptable airborne concentrations for asbestos shall be less than 0.01 fibers per cubic centimeter or air (<0.01 f/cc).
16. Final air clearance testing for asbestos shall also be performed prior to tear down of the containment. All final air clearance testing shall be performed in accordance with state of Massachusetts Regulations and the work area shall be considered complete if the airborne fiber concentration of all air samples analyzed by Phase Contrast Microscopy (PCM) is <0.01 fibers per cubic centimeter.
17. Upon acceptance of final visual inspection and air clearance testing, the containment area shall be torn down.
18. The Contractor shall then proceed with installation of the encapsulant (i.e. coating) on the remaining masonry/block window surround. The masonry/block will be manually cleaned to remove latent dust, dirt and debris. Following the surface preparation, two (2) coats of Sikagard 62 colored epoxy will be applied over the area. An additional contrasting tinted base coat will be used applied to act as a visual wear indicator.
19. Verification sampling (i.e. wipe testing) of the encapsulant shall be performed at 6 window openings (approximately 25% of the total units).

20. The coating system will be shown to be performing adequately to seal residual PCBs if all wipe samples have concentrations of less than 1.0 ug/100 cm².
21. If results indicate PCB's >1 ug/100cm², additional cleaning and recoating of the masonry /block window surround will be required and additional confirmatory testing shall be performed.
22. As an additional measure, gypsum wall board will be installed over the masonry/block window surround once the new window unit has been installed. This is being done as part of the Architectural finish to the project, but will also provide an additional enclosure measure to reduce contact from building occupants.

VIII. Waste Disposal

Secure, lined and covered waste containers (roll-off containers or equivalent), 55 gallon DOT approved steel containers or double six (6) mil disposal bags shall be utilized for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65. Containers will be staged at the site within a secured area (i.e. fenced and locked). All containers shall be properly labeled and marked in accordance with 40 CFR 761.40.

Upon completion of waste profiling and acceptance at the disposal facilities, materials shall be loaded for shipment to the disposal facility as follows:

- Caulking and window components are classified as >50 ppm PCB waste and shall be disposed of under a Hazardous Waste Manifest to a hazardous waste landfill.

IX. Communications

The Plan and approval will be posted on the UMASS EH&S website with other PCB documentation/information related to projects on campus that have dealt with PCB's. Weekly project meetings shall also take place during construction to update the status of the work, schedule and points of contact for information relating to the project during performance of the work.

X. Recordkeeping and Documentation

Following completion of the work activities, records and documents per 40 CFR 761 will be generated and maintained at one location. A final report documenting the completion of the work activities, verification analytical results, volumes of disposed materials, and waste shipment records will be prepared and submitted to EPA.

This document will also include any necessary deed notices as required under the risk based approach as well as updated implementation of a long term Monitoring and Maintenance Plan (MMP).

XI. Schedule

The project is scheduled to commence in the Summer of 2012 with a completion date of January 1, 2013. Due to the extremely aggressive schedule for completion of the project, the PCB remediation work would commence immediately upon receipt of Notification for Approval from the EPA.

XII. Certification

A copy of the written certification signed by the Owner has been provided under **Attachment I.**

If you have any questions regarding this application, please feel free to call me directly at (413) 664-6687.

Sincerely,

ATC Associates Inc.



Derrick Wissman
Senior Project Manager

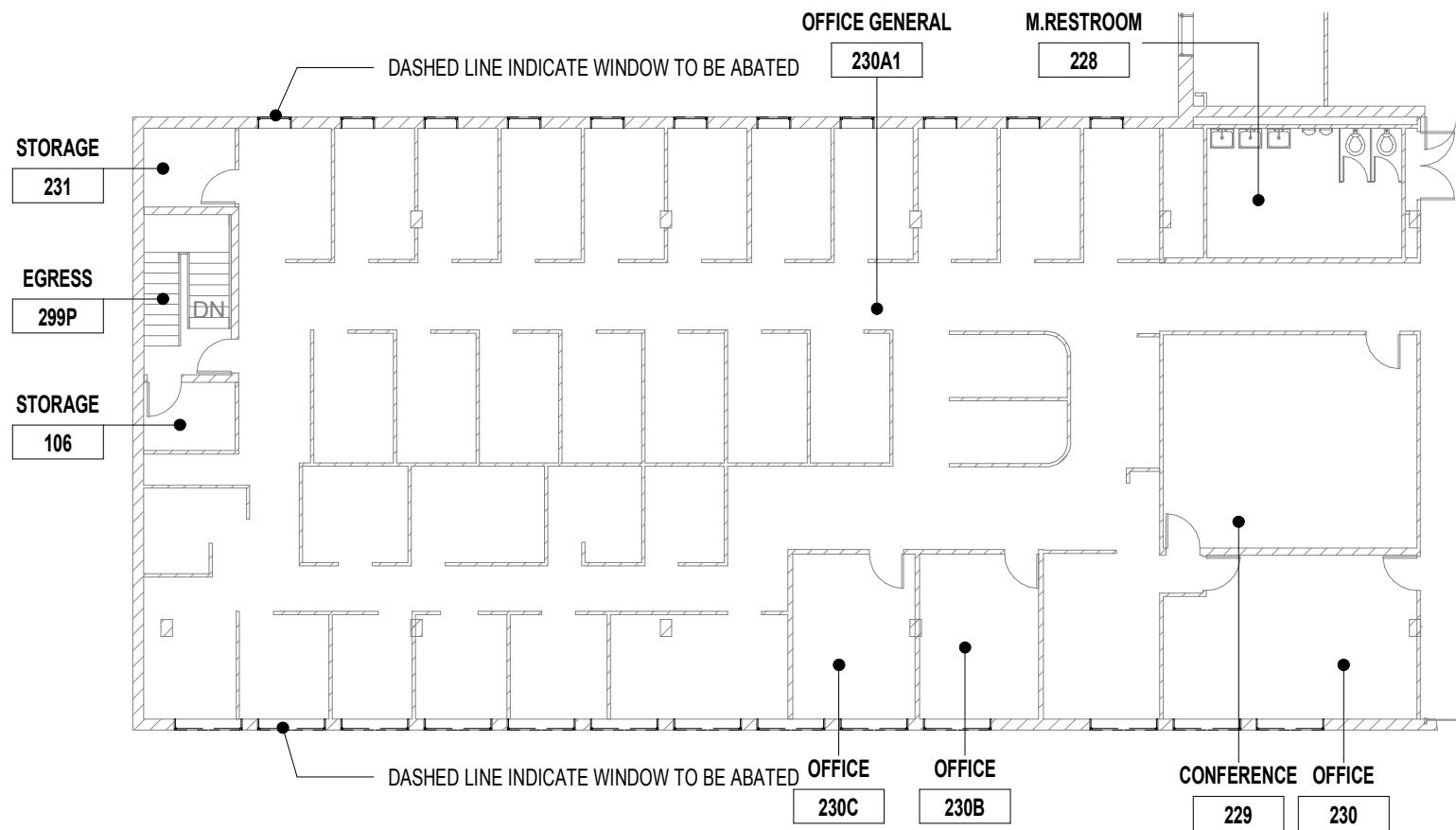
ATC Associates Inc.



Brian Williams
Branch Manager

ATTACHMENT A

DRAWING (SITE LAYOUT)



2 2ND FLOOR PHYSICAL PLANT
1/16" = 1'-0"

SITE LAYOUT

ATTACHMENT B

PCB LABORATORY ANALYTICAL RESULTS (SOURCE MATERIAL)

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-37443-1

Client Project/Site: U-Mass

For:

ATC Associates, Inc.
73 William Franks Drive
West Springfield, Massachusetts 01089

Attn: Mr. Derrick Wissman

Authorized for release by:

11/16/2011 2:19:07 PM

Joe Chimi

Report Production Representative
joe.chimi@testamericainc.com

Designee for

Becky Mason
Project Manager II

becky.mason@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	18
QC Association	19
Surrogate Summary	21
QC Sample Results	22
Chronicle	23
Certification Summary	27
Receipt Checklists	29
Chain of Custody	30

Case Narrative

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Job ID: 360-37443-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/07/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

POLYCHLORINATED BIPHENYLS (PCBs)

Samples UMPS-PCB-1 (360-37443-1), UMPS-PCB-2 (360-37443-2), UMPS-PCB-3 (360-37443-3), UMPS-PCB-4 (360-37443-4), UMPS-PCB-5 (360-37443-5), UMPS-PCB-6 (360-37443-6), UMPS-PCB-7 (360-37443-7), UMPS-PCB-8 (360-37443-8), UMPS-PCB-9 (360-37443-9), UMPS-PCB-10 (360-37443-10), UMPS-PCB-11 (360-37443-11), UMPS-PCB-12 (360-37443-12), UMPS-PCB-13 (360-37443-13), UMPS-PCB-14 (360-37443-14), UMPS-PCB-15 (360-37443-15) and UMPS-PCB-16 (360-37443-16) were analyzed for polychlorinated biphenyls (PCBs) in accordance with SW846 8082. The samples were prepared on 11/07/2011 and analyzed on 11/10/2011 and 11/11/2011.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for UMPS-PCB-9 (360-37443-9) and UMPS-PCB-10 (360-37443-10) (secondary column only). Refer to the QC report for details.

PCB-1016 failed the recovery criteria high for LCS 360-82960/2-A (primary column only). PCB-1260 exceeded the rpd limit for LCSD 360-82960/3-A (primary and secondary columns). Refer to the QC report for details.

For batch 83175, PCB-1016 and PCB-1260 failed criteria high for the opening continuing calibration verification (CCV) (primary column only). DCB Decachlorobiphenyl failed the criteria low for the opening CCV (secondary column only). PCB-1016 and PCB-1260 failed the criteria high for the closing CCV (primary and secondary columns). DCB Decachlorobiphenyl failed the criteria high for the closing CCV (primary column only). For batch 83211, Tetrachloro-m-xylene failed the criteria high for the closing CCV (primary column only). For batch 83232, DCB Decachlorobiphenyl failed the criteria low for the closing CCV (secondary column only).

Samples UMPS-PCB-7 (360-37443-7)[20X] and UMPS-PCB-8 (360-37443-8)[20X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly. Consequently, for these samples, the surrogates DCB Decachlorobiphenyl and Tetrachloro-m-xylene were diluted outside control limits.

No other difficulties were encountered during the PCBs analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

For samples UMPS-PCB-1 (360-37443-1), UMPS-PCB-2 (360-37443-2), UMPS-PCB-3 (360-37443-3), UMPS-PCB-4 (360-37443-4), UMPS-PCB-5 (360-37443-5), UMPS-PCB-6 (360-37443-6), UMPS-PCB-7 (360-37443-7), UMPS-PCB-8 (360-37443-8), UMPS-PCB-9 (360-37443-9), UMPS-PCB-10 (360-37443-10), UMPS-PCB-11 (360-37443-11), UMPS-PCB-12 (360-37443-12), UMPS-PCB-13 (360-37443-13), UMPS-PCB-14 (360-37443-14), UMPS-PCB-15 (360-37443-15) and UMPS-PCB-16 (360-37443-16), the laboratory assumes 100% solids. The percent solids results were entered on 11/07/2011.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-1

Lab Sample ID: 360-37443-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.6		0.97	0.97	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-2

Lab Sample ID: 360-37443-2

No Detections

Client Sample ID: UMPS-PCB-3

Lab Sample ID: 360-37443-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2.9		0.79	0.79	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	3.1		0.79	0.79	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-4

Lab Sample ID: 360-37443-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	3.1		0.93	0.93	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	3.4		0.93	0.93	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-5

Lab Sample ID: 360-37443-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1.3		0.90	0.90	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-6

Lab Sample ID: 360-37443-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.73		0.70	0.70	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-7

Lab Sample ID: 360-37443-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	130		19	19	mg/Kg	20	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-8

Lab Sample ID: 360-37443-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	41		10	10	mg/Kg	20	⊗	8082	Total/NA

Client Sample ID: UMPS-PCB-9

Lab Sample ID: 360-37443-9

No Detections

Client Sample ID: UMPS-PCB-10

Lab Sample ID: 360-37443-10

No Detections

Client Sample ID: UMPS-PCB-11

Lab Sample ID: 360-37443-11

No Detections

Client Sample ID: UMPS-PCB-12

Lab Sample ID: 360-37443-12

No Detections

Detection Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-13

Lab Sample ID: 360-37443-13

No Detections

Client Sample ID: UMPS-PCB-14

Lab Sample ID: 360-37443-14

No Detections

Client Sample ID: UMPS-PCB-15

Lab Sample ID: 360-37443-15

No Detections

Client Sample ID: UMPS-PCB-16

Lab Sample ID: 360-37443-16

No Detections

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Method Summary

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL WFD
Moisture	Percent Moisture	EPA	TAL WFD

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-37443-1	UMPS-PCB-1	Solid	11/03/11 17:31	11/07/11 12:50
360-37443-2	UMPS-PCB-2	Solid	11/03/11 17:43	11/07/11 12:50
360-37443-3	UMPS-PCB-3	Solid	11/03/11 17:54	11/07/11 12:50
360-37443-4	UMPS-PCB-4	Solid	11/03/11 18:05	11/07/11 12:50
360-37443-5	UMPS-PCB-5	Solid	11/03/11 18:11	11/07/11 12:50
360-37443-6	UMPS-PCB-6	Solid	11/03/11 18:29	11/07/11 12:50
360-37443-7	UMPS-PCB-7	Solid	11/03/11 18:20	11/07/11 12:50
360-37443-8	UMPS-PCB-8	Solid	11/03/11 18:37	11/07/11 12:50
360-37443-9	UMPS-PCB-9	Solid	11/03/11 19:00	11/07/11 12:50
360-37443-10	UMPS-PCB-10	Solid	11/04/11 14:30	11/07/11 12:50
360-37443-11	UMPS-PCB-11	Solid	11/03/11 19:11	11/07/11 12:50
360-37443-12	UMPS-PCB-12	Solid	11/04/11 14:36	11/07/11 12:50
360-37443-13	UMPS-PCB-13	Solid	11/04/11 14:40	11/07/11 12:50
360-37443-14	UMPS-PCB-14	Solid	11/04/11 14:46	11/07/11 12:50
360-37443-15	UMPS-PCB-15	Solid	11/04/11 14:50	11/07/11 12:50
360-37443-16	UMPS-PCB-16	Solid	11/04/11 14:58	11/07/11 12:50

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: UMPS-PCB-1

Date Collected: 11/03/11 17:31

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-1

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1221	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1232	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1242	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1248	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1254	4.6		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1260	ND *		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1262	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
PCB-1268	ND		0.97	0.97	mg/Kg	⊗	11/07/11 16:54	11/11/11 08:56	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>		92		30 - 150			11/07/11 16:54	11/11/11 08:56	1
<i>DCB Decachlorobiphenyl</i>		83		30 - 150			11/07/11 16:54	11/11/11 08:56	1
<i>Tetrachloro-m-xylene</i>		99		30 - 150			11/07/11 16:54	11/11/11 08:56	1
<i>Tetrachloro-m-xylene</i>		92		30 - 150			11/07/11 16:54	11/11/11 08:56	1

Client Sample ID: UMPS-PCB-2

Date Collected: 11/03/11 17:43

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-2

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1221	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1232	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1242	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1248	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1254	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1260	ND *		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1262	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
PCB-1268	ND		0.85	0.85	mg/Kg	⊗	11/07/11 16:54	11/10/11 11:33	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>		103		30 - 150			11/07/11 16:54	11/10/11 11:33	1
<i>DCB Decachlorobiphenyl</i>		75		30 - 150			11/07/11 16:54	11/10/11 11:33	1
<i>Tetrachloro-m-xylene</i>		85		30 - 150			11/07/11 16:54	11/10/11 11:33	1
<i>Tetrachloro-m-xylene</i>		77		30 - 150			11/07/11 16:54	11/10/11 11:33	1

Client Sample ID: UMPS-PCB-3

Date Collected: 11/03/11 17:54

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-3

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1221	ND		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1232	ND		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1242	ND		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1248	2.9		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1254	3.1		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1260	ND *		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
PCB-1262	ND		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: UMPS-PCB-3

Date Collected: 11/03/11 17:54

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-3

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.79	0.79	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:18	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
79			30 - 150				11/07/11 16:54	11/11/11 09:18	1
<i>DCB Decachlorobiphenyl</i>			30 - 150				11/07/11 16:54	11/11/11 09:18	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 09:18	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 09:18	1

Client Sample ID: UMPS-PCB-4

Date Collected: 11/03/11 18:05

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-4

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1221	ND		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1232	ND		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1242	ND		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1248	3.1		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1254	3.4		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1260	ND	*	0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1262	ND		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
PCB-1268	ND		0.93	0.93	mg/Kg	⊗	11/07/11 16:54	11/11/11 09:39	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
72			30 - 150				11/07/11 16:54	11/11/11 09:39	1
<i>DCB Decachlorobiphenyl</i>			30 - 150				11/07/11 16:54	11/11/11 09:39	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 09:39	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 09:39	1

Client Sample ID: UMPS-PCB-5

Date Collected: 11/03/11 18:11

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-5

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1221	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1232	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1242	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1248	1.3		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1254	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1260	ND	*	0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1262	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
PCB-1268	ND		0.90	0.90	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:01	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
96			30 - 150				11/07/11 16:54	11/11/11 10:01	1
<i>DCB Decachlorobiphenyl</i>			30 - 150				11/07/11 16:54	11/11/11 10:01	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 10:01	1
<i>Tetrachloro-m-xylene</i>			30 - 150				11/07/11 16:54	11/11/11 10:01	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: UMPS-PCB-6

Date Collected: 11/03/11 18:29

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-6

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1221	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1232	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1242	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1248	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1254	0.73		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1260	ND	*	0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1262	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
PCB-1268	ND		0.70	0.70	mg/Kg	⊗	11/07/11 16:54	11/11/11 10:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		30 - 150				11/07/11 16:54	11/11/11 10:23	1
DCB Decachlorobiphenyl	86		30 - 150				11/07/11 16:54	11/11/11 10:23	1
Tetrachloro-m-xylene	69		30 - 150				11/07/11 16:54	11/11/11 10:23	1
Tetrachloro-m-xylene	79		30 - 150				11/07/11 16:54	11/11/11 10:23	1

Client Sample ID: UMPS-PCB-7

Date Collected: 11/03/11 18:20

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-7

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1221	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1232	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1242	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1248	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1254	130		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1260	ND	*	19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1262	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
PCB-1268	ND		19	19	mg/Kg	⊗	11/07/11 16:54	11/10/11 22:56	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	XD	30 - 150				11/07/11 16:54	11/10/11 22:56	20
DCB Decachlorobiphenyl	0	XD	30 - 150				11/07/11 16:54	11/10/11 22:56	20
Tetrachloro-m-xylene	0	XD	30 - 150				11/07/11 16:54	11/10/11 22:56	20
Tetrachloro-m-xylene	0	XD	30 - 150				11/07/11 16:54	11/10/11 22:56	20

Client Sample ID: UMPS-PCB-8

Date Collected: 11/03/11 18:37

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-8

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1221	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1232	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1242	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1248	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1254	41		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1260	ND	*	10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
PCB-1262	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: UMPS-PCB-8

Date Collected: 11/03/11 18:37

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-8

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		10	10	mg/Kg	⊗	11/07/11 16:54	11/10/11 23:18	20
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	0	XD	30 - 150				11/07/11 16:54	11/10/11 23:18	20
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 23:18	20
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 23:18	20
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 23:18	20

Client Sample ID: UMPS-PCB-9

Date Collected: 11/03/11 19:00

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-9

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1221	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1232	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1242	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1248	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1254	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1260	ND	*	0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1262	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
PCB-1268	ND		0.61	0.61	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:01	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	82	p	30 - 150				11/07/11 16:54	11/10/11 14:01	1
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 14:01	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 14:01	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 14:01	1

Client Sample ID: UMPS-PCB-10

Date Collected: 11/04/11 14:30

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-10

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1221	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1232	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1242	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1248	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1254	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1260	ND	*	0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1262	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
PCB-1268	ND		0.53	0.53	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:22	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	77	p	30 - 150				11/07/11 16:54	11/10/11 14:22	1
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 14:22	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 14:22	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 14:22	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: UMPS-PCB-11

Date Collected: 11/03/11 19:11

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-11

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1221	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1232	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1242	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1248	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1254	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1260	ND *		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1262	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
PCB-1268	ND		0.72	0.72	mg/Kg	⊗	11/07/11 16:54	11/10/11 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		30 - 150				11/07/11 16:54	11/10/11 14:43	1
DCB Decachlorobiphenyl	83		30 - 150				11/07/11 16:54	11/10/11 14:43	1
Tetrachloro-m-xylene	81		30 - 150				11/07/11 16:54	11/10/11 14:43	1
Tetrachloro-m-xylene	71		30 - 150				11/07/11 16:54	11/10/11 14:43	1

Client Sample ID: UMPS-PCB-12

Date Collected: 11/04/11 14:36

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-12

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1221	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1232	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1242	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1248	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1254	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1260	ND *		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1262	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
PCB-1268	ND		0.99	0.99	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		30 - 150				11/07/11 16:54	11/10/11 15:04	1
DCB Decachlorobiphenyl	98		30 - 150				11/07/11 16:54	11/10/11 15:04	1
Tetrachloro-m-xylene	95		30 - 150				11/07/11 16:54	11/10/11 15:04	1
Tetrachloro-m-xylene	87		30 - 150				11/07/11 16:54	11/10/11 15:04	1

Client Sample ID: UMPS-PCB-13

Date Collected: 11/04/11 14:40

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-13

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND *		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1221	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1232	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1242	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1248	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1254	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1260	ND *		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
PCB-1262	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: UMPS-PCB-13

Date Collected: 11/04/11 14:40

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-13

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.55	0.55	mg/Kg	⊗	11/07/11 16:54	11/10/11 15:26	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
101			30 - 150				11/07/11 16:54	11/10/11 15:26	1
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 15:26	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 15:26	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 15:26	1

Client Sample ID: UMPS-PCB-14

Date Collected: 11/04/11 14:46

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-14

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1221	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1232	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1242	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1248	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1254	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1260	ND	*	0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1262	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
PCB-1268	ND		0.86	0.86	mg/Kg	⊗	11/07/11 16:54	11/10/11 16:48	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
99			30 - 150				11/07/11 16:54	11/10/11 16:48	1
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 16:48	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 16:48	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 16:48	1

Client Sample ID: UMPS-PCB-15

Date Collected: 11/04/11 14:50

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-15

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1221	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1232	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1242	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1248	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1254	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1260	ND	*	0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1262	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
PCB-1268	ND		0.71	0.71	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:10	1
Surrogate									
<i>DCB Decachlorobiphenyl</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
102			30 - 150				11/07/11 16:54	11/10/11 17:10	1
<i>DCB Decachlorobiphenyl</i>							11/07/11 16:54	11/10/11 17:10	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 17:10	1
<i>Tetrachloro-m-xylene</i>							11/07/11 16:54	11/10/11 17:10	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: UMPS-PCB-16

Lab Sample ID: 360-37443-16

Date Collected: 11/04/11 14:58

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1221	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1232	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1242	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1248	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1254	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1260	ND	*	0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1262	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
PCB-1268	ND		0.62	0.62	mg/Kg	⊗	11/07/11 16:54	11/10/11 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		30 - 150				11/07/11 16:54	11/10/11 17:31	1
DCB Decachlorobiphenyl	86		30 - 150				11/07/11 16:54	11/10/11 17:31	1
Tetrachloro-m-xylene	83		30 - 150				11/07/11 16:54	11/10/11 17:31	1
Tetrachloro-m-xylene	75		30 - 150				11/07/11 16:54	11/10/11 17:31	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

General Chemistry

Client Sample ID: UMPS-PCB-1

Lab Sample ID: 360-37443-1

Date Collected: 11/03/11 17:31

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-2

Lab Sample ID: 360-37443-2

Date Collected: 11/03/11 17:43

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-3

Lab Sample ID: 360-37443-3

Date Collected: 11/03/11 17:54

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-4

Lab Sample ID: 360-37443-4

Date Collected: 11/03/11 18:05

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-5

Lab Sample ID: 360-37443-5

Date Collected: 11/03/11 18:11

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-6

Lab Sample ID: 360-37443-6

Date Collected: 11/03/11 18:29

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-7

Lab Sample ID: 360-37443-7

Date Collected: 11/03/11 18:20

Matrix: Solid

Date Received: 11/07/11 12:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

General Chemistry (Continued)

Client Sample ID: UMPS-PCB-7
Date Collected: 11/03/11 18:20
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-7
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-8
Date Collected: 11/03/11 18:37
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-8
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-9
Date Collected: 11/03/11 19:00
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-9
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-10
Date Collected: 11/04/11 14:30
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-10
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-11
Date Collected: 11/03/11 19:11
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-11
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-12
Date Collected: 11/04/11 14:36
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-12
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-13
Date Collected: 11/04/11 14:40
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-13
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

General Chemistry

Client Sample ID: UMPS-PCB-14

Date Collected: 11/04/11 14:46

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-14

Matrix: Solid

Analyte

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:02	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:02	1

Client Sample ID: UMPS-PCB-15

Date Collected: 11/04/11 14:50

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-15

Matrix: Solid

Analyte

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:07	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:07	1

Client Sample ID: UMPS-PCB-16

Date Collected: 11/04/11 14:58

Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-16

Matrix: Solid

Analyte

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			11/07/11 17:07	1
Percent Solids	100		1.0	1.0	%			11/07/11 17:07	1

Definitions/Glossary

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

⊗	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

GC Semi VOA

Prep Batch: 82960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-37443-1	UMPS-PCB-1	Total/NA	Solid	3540C	5
360-37443-2	UMPS-PCB-2	Total/NA	Solid	3540C	5
360-37443-3	UMPS-PCB-3	Total/NA	Solid	3540C	5
360-37443-4	UMPS-PCB-4	Total/NA	Solid	3540C	6
360-37443-5	UMPS-PCB-5	Total/NA	Solid	3540C	7
360-37443-6	UMPS-PCB-6	Total/NA	Solid	3540C	7
360-37443-7	UMPS-PCB-7	Total/NA	Solid	3540C	8
360-37443-8	UMPS-PCB-8	Total/NA	Solid	3540C	8
360-37443-9	UMPS-PCB-9	Total/NA	Solid	3540C	9
360-37443-10	UMPS-PCB-10	Total/NA	Solid	3540C	10
360-37443-11	UMPS-PCB-11	Total/NA	Solid	3540C	10
360-37443-12	UMPS-PCB-12	Total/NA	Solid	3540C	11
360-37443-13	UMPS-PCB-13	Total/NA	Solid	3540C	11
360-37443-14	UMPS-PCB-14	Total/NA	Solid	3540C	12
360-37443-15	UMPS-PCB-15	Total/NA	Solid	3540C	12
360-37443-16	UMPS-PCB-16	Total/NA	Solid	3540C	12
LCS 360-82960/2-A	Lab Control Sample	Total/NA	Solid	3540C	13
LCSD 360-82960/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	13
MB 360-82960/1-A	Method Blank	Total/NA	Solid	3540C	14

Analysis Batch: 83175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-37443-2	UMPS-PCB-2	Total/NA	Solid	8082	82960
360-37443-9	UMPS-PCB-9	Total/NA	Solid	8082	82960
360-37443-10	UMPS-PCB-10	Total/NA	Solid	8082	82960
360-37443-11	UMPS-PCB-11	Total/NA	Solid	8082	82960
360-37443-12	UMPS-PCB-12	Total/NA	Solid	8082	82960
360-37443-13	UMPS-PCB-13	Total/NA	Solid	8082	82960
360-37443-14	UMPS-PCB-14	Total/NA	Solid	8082	82960
360-37443-15	UMPS-PCB-15	Total/NA	Solid	8082	82960
360-37443-16	UMPS-PCB-16	Total/NA	Solid	8082	82960
LCS 360-82960/2-A	Lab Control Sample	Total/NA	Solid	8082	82960
LCSD 360-82960/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	82960
MB 360-82960/1-A	Method Blank	Total/NA	Solid	8082	82960

Analysis Batch: 83211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-37443-7	UMPS-PCB-7	Total/NA	Solid	8082	82960
360-37443-8	UMPS-PCB-8	Total/NA	Solid	8082	82960

Analysis Batch: 83232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-37443-1	UMPS-PCB-1	Total/NA	Solid	8082	82960
360-37443-3	UMPS-PCB-3	Total/NA	Solid	8082	82960
360-37443-4	UMPS-PCB-4	Total/NA	Solid	8082	82960
360-37443-5	UMPS-PCB-5	Total/NA	Solid	8082	82960
360-37443-6	UMPS-PCB-6	Total/NA	Solid	8082	82960

QC Association Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

General Chemistry

Analysis Batch: 82929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-37443-1	UMPS-PCB-1	Total/NA	Solid	Moisture	5
360-37443-2	UMPS-PCB-2	Total/NA	Solid	Moisture	6
360-37443-3	UMPS-PCB-3	Total/NA	Solid	Moisture	7
360-37443-4	UMPS-PCB-4	Total/NA	Solid	Moisture	8
360-37443-5	UMPS-PCB-5	Total/NA	Solid	Moisture	9
360-37443-6	UMPS-PCB-6	Total/NA	Solid	Moisture	10
360-37443-7	UMPS-PCB-7	Total/NA	Solid	Moisture	11
360-37443-8	UMPS-PCB-8	Total/NA	Solid	Moisture	12
360-37443-9	UMPS-PCB-9	Total/NA	Solid	Moisture	13
360-37443-10	UMPS-PCB-10	Total/NA	Solid	Moisture	14
360-37443-11	UMPS-PCB-11	Total/NA	Solid	Moisture	15
360-37443-12	UMPS-PCB-12	Total/NA	Solid	Moisture	
360-37443-13	UMPS-PCB-13	Total/NA	Solid	Moisture	
360-37443-14	UMPS-PCB-14	Total/NA	Solid	Moisture	
360-37443-15	UMPS-PCB-15	Total/NA	Solid	Moisture	
360-37443-16	UMPS-PCB-16	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (30-150)	DCB2 (30-150)	TCX1 (30-150)	TCX2 (30-150)
360-37443-1	UMPS-PCB-1	92	83	99	92
360-37443-2	UMPS-PCB-2	103	75	85	77
360-37443-3	UMPS-PCB-3	79	67	80	76
360-37443-4	UMPS-PCB-4	72	70	71	75
360-37443-5	UMPS-PCB-5	96	84	90	84
360-37443-6	UMPS-PCB-6	93	86	69	79
360-37443-7	UMPS-PCB-7	0 X D	0 X D	0 X D	0 X D
360-37443-8	UMPS-PCB-8	0 X D	0 X D	0 X D	0 X D
360-37443-9	UMPS-PCB-9	82 p	163 X	100	89
360-37443-10	UMPS-PCB-10	77 p	164 X	82	82
360-37443-11	UMPS-PCB-11	83	83	81	71
360-37443-12	UMPS-PCB-12	106	98	95	87
360-37443-13	UMPS-PCB-13	101	87	88	86
360-37443-14	UMPS-PCB-14	99	84	86	81
360-37443-15	UMPS-PCB-15	102	81	80	70
360-37443-16	UMPS-PCB-16	106	86	83	75
LCS 360-82960/2-A	Lab Control Sample	128	78 p	109	89
LCSD 360-82960/3-A	Lab Control Sample Dup	111	74 p	93	82
MB 360-82960/1-A	Method Blank	107	75	96	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 360-82960/1-A

Matrix: Solid

Analysis Batch: 83175

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82960

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							RL	Unit	Dil Fac
PCB-1016	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1221	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1232	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1242	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1248	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1254	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1260	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1262	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1
PCB-1268	ND				0.10	0.10	mg/Kg		11/07/11 16:54	11/10/11 10:08	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
DCB Decachlorobiphenyl	107		30 - 150			11/07/11 16:54	11/10/11 10:08	1
DCB Decachlorobiphenyl	75		30 - 150			11/07/11 16:54	11/10/11 10:08	1
Tetrachloro-m-xylene	96		30 - 150			11/07/11 16:54	11/10/11 10:08	1
Tetrachloro-m-xylene	89		30 - 150			11/07/11 16:54	11/10/11 10:08	1

Lab Sample ID: LCS 360-82960/2-A

Matrix: Solid

Analysis Batch: 83175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82960

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
	Added	Result	Qualifier						
PCB-1016		0.500		0.754	*	mg/Kg		151	40 - 140
PCB-1260		0.500		0.481	p	mg/Kg		96	40 - 140

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits				
	Result	Qualifier				Unit	D	%Rec	Limits
DCB Decachlorobiphenyl	128		30 - 150						
DCB Decachlorobiphenyl	78	p	30 - 150						
Tetrachloro-m-xylene	109		30 - 150						
Tetrachloro-m-xylene	89		30 - 150						

Lab Sample ID: LCSD 360-82960/3-A

Matrix: Solid

Analysis Batch: 83175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82960

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
PCB-1016		0.500		0.667	*	mg/Kg		133	40 - 140	12	30
PCB-1260		0.500		0.694	*	mg/Kg		139	40 - 140	36	30

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits				
	Result	Qualifier				Unit	D	%Rec	Limits
DCB Decachlorobiphenyl	111		30 - 150						
DCB Decachlorobiphenyl	74	p	30 - 150						
Tetrachloro-m-xylene	93		30 - 150						
Tetrachloro-m-xylene	82		30 - 150						

Lab Chronicle

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-1

Lab Sample ID: 360-37443-1

Date Collected: 11/03/11 17:31

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83232	11/11/11 08:56	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-2

Lab Sample ID: 360-37443-2

Date Collected: 11/03/11 17:43

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 11:33	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-3

Lab Sample ID: 360-37443-3

Date Collected: 11/03/11 17:54

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83232	11/11/11 09:18	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-4

Lab Sample ID: 360-37443-4

Date Collected: 11/03/11 18:05

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83232	11/11/11 09:39	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-5

Lab Sample ID: 360-37443-5

Date Collected: 11/03/11 18:11

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83232	11/11/11 10:01	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-6

Date Collected: 11/03/11 18:29
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-6
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83232	11/10/11 10:23	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-7

Date Collected: 11/03/11 18:20
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-7
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		20	83211	11/10/11 22:56	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-8

Date Collected: 11/03/11 18:37
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-8
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		20	83211	11/10/11 23:18	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-9

Date Collected: 11/03/11 19:00
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-9
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 14:01	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-10

Date Collected: 11/04/11 14:30
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-10
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 14:22	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-11

Date Collected: 11/03/11 19:11
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-11

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 14:43	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-12

Date Collected: 11/04/11 14:36
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-12

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 15:04	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-13

Date Collected: 11/04/11 14:40
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-13

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 15:26	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-14

Date Collected: 11/04/11 14:46
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-14

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 16:48	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:02	OG	TAL WFD

Client Sample ID: UMPS-PCB-15

Date Collected: 11/04/11 14:50
Date Received: 11/07/11 12:50

Lab Sample ID: 360-37443-15

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 17:10	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:07	OG	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.

Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Client Sample ID: UMPS-PCB-16

Lab Sample ID: 360-37443-16

Date Collected: 11/04/11 14:58

Matrix: Solid

Date Received: 11/07/11 12:50

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			82960	11/07/11 16:54	BRB	TAL WFD
Total/NA	Analysis	8082		1	83175	11/10/11 17:31	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	82929	11/07/11 17:07	OG	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ATC Associates, Inc.
Project/Site: U-Mass

TestAmerica Job ID: 360-37443-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 CI F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli	ambient/ source		
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO ₃) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)		NP/SW	
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ATC Associates, Inc.

Job Number: 360-37443-1

Login Number: 37443

List Source: TestAmerica Westfield

List Number: 1

Creator: Ard, Vanessa L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Information						Carrier Tracking No(s):	
Client Contact:		Name: MINTONY ATC ASSOCIATES		Address: 73 INDIAN FRANK DRIVE W. SPRINGFIELD		COC No: 0177959	
Company:		E-Mail: 413 537 1300		Phone: 414 01089		Page: 10F2	
Analysis Requested						Job # 340 - 3443	
<p>PCB 8082</p> <p>SOXHLET</p> <p>Field Filtered Sample</p> <p>Perform MS/MSD7</p> <p>Sample Filterables</p> <p>Field Filtered Sample?</p> <p>Project Name/number: U-MASS</p> <p>Site: U-SPCAL Plant</p> <p>PO#: 101625. MONITORING ASSOCIATES CORP</p> <p>WO#:</p> <p>SSOW#:</p> <p>Quote #: 413 786 0070</p> <p>Email:</p>						<p>Preservation Codes:</p> <p>A - HCl J - DI Water B - NaOH M - Hexane C - Zn Acetate N - None D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SSO3 F - MeOH R - Na2SSO3 H - Ascorbic Acid S - H2SO4 I - Ice Z - other (specify)</p> <p>Regulatory Programs:</p> <p>MCP <input checked="" type="checkbox"/> GW/SI RCP <input type="checkbox"/> CT/RR DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/></p>	
						Total Number of containers	
						Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code		
1	U/3/11	1731	G	S	X		
2	U/3/11	1743	G	S	X		
3	U/3/11	1754	G	S	X		
4	U/3/11	1805	G	S	X		
5	U/3/11	1811	G	S	X		
6	U/3/11	1839	G	S	X		
7	U/3/11	1830	G	S	X		
8	U/3/11	1837	G	S	X		
9	U/3/11	1900	G	S	X		
10	U/4/11	1430	G	S	X		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:	
Rerelished by <u>Karen S.</u> Delinshed by <u>11/20/2011</u>						Received by <u>AC</u> Date/Time <u>11/11/1050</u> Company	
						Received by <u>AC</u> Date/Time <u>11/11/1050</u> Company	
						Received by <u>AC</u> Date/Time <u>11/11/1050</u> Company	
						Cooler Temperature(s) °C and Other Remarks:	
						5.0 / 10	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: DERRICK WESSMAN	Supplier: 666-42 E. Montague	Lab P/N: BACK 44SCN	Carrier Tracking No(s): 017958																												
Company: ATC ASSOCIATES	Phone: 413 637 1300	E-Mail: 	Page: 2 OF 2																												
Analysis Requested																															
<p>10# 360-37443</p> <p>Preservation Codes:</p> <p>A - HCl J - DI Water B - NaOH M - Hexane C - Zn Acetate N - None D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Ascorbic Acid S - H2SO4 I - Ice T - Other (specify)</p> <p>Regulatory Programs:</p> <p><input type="checkbox"/> GW1/S1 <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required</p>																															
Total Number of Containers: 1																															
<p>Project Name/Number: 145</p> <p>Site: YSRCA PLANT</p> <p>Sample Initials: PCB 808</p> <p>MSDS#: 50HXL17T</p> <p>Field Filtered Sample#: PCB 808</p> <p>Perform MSDS? <input checked="" type="checkbox"/></p>																															
<p>Sample Identification</p> <table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Preservation Codes</th> </tr> </thead> <tbody> <tr> <td>11/3/11</td> <td>19:11</td> <td>G</td> <td>S</td> </tr> <tr> <td>11/4/11</td> <td>14:38</td> <td>G</td> <td>S</td> </tr> <tr> <td>11/4/11</td> <td>14:49</td> <td>G</td> <td>S</td> </tr> <tr> <td>11/4/11</td> <td>14:46</td> <td>G</td> <td>S</td> </tr> <tr> <td>11/4/11</td> <td>14:50</td> <td>G</td> <td>S</td> </tr> <tr> <td>11/4/11</td> <td>14:58</td> <td>G</td> <td>S</td> </tr> </tbody> </table> <p>Special Instructions/Note: 374</p>				Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Preservation Codes	11/3/11	19:11	G	S	11/4/11	14:38	G	S	11/4/11	14:49	G	S	11/4/11	14:46	G	S	11/4/11	14:50	G	S	11/4/11	14:58	G	S
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Preservation Codes																												
11/3/11	19:11	G	S																												
11/4/11	14:38	G	S																												
11/4/11	14:49	G	S																												
11/4/11	14:46	G	S																												
11/4/11	14:50	G	S																												
11/4/11	14:58	G	S																												
<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Poison B <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Relinquished by: RETRIEVED BY</p> <p>Reinstituted by: REINSTITUTED BY</p> <p>Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.: 2011-50 / RC</p> <p>Cooler Temperature(s) °C and Other Remarks: 5.0 / RC</p>																															
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements:</p> <p>Received by: RETRIEVED BY</p> <p>Date/Time: 11/16/2011 10:50</p> <p>Received by: REINSTITUTED BY</p> <p>Date/Time: 11/16/2011 10:50</p> <p>Received by: COOLER BY</p> <p>Date/Time: 11/16/2011 10:50</p>																															

ATTACHMENT C

SUMMARY TABLE – PCB SOURCE SAMPLING

PHYSICAL PLANT (2ND FLOOR RENOVATIONS)
SUMMARY OF POLYCHLORINATED BYPHENOL SAMPLING

SAMPLE	BUILDING	MATERIAL	LOCATION	RESULTS (PPM)	DETECTION LIMIT
UMPS-PCB-1	Physical Plant	Exterior Door/Window Frame Caulking	Storefront Window (Front Entry)	4.6	0.97
UMPS-PCB-2	Physical Plant	Exterior Door/Window Frame Caulking	Storefront Window (Front Entry)	None Detected	0.85
UMPS-PCB-3	Physical Plant	Interior Door/Window Frame Caulking	Storefront Window (Front Entry)	6.0	0.79
UMPS-PCB-4	Physical Plant	Interior Door/Window Frame Caulking	Storefront Window (Front Entry)	6.5	0.93
UMPS-PCB-5	Physical Plant	Interior Window Glazing Compound	Room 230A - Metal Window	1.3	0.90
UMPS-PCB-6	Physical Plant	Interior Window Glazing Compound	Room 230A - Metal Window	0.73	0.70
UMPS-PCB-7	Physical Plant	Interior Window Caulking	Room 230A - Metal Window	130	19
UMPS-PCB-8	Physical Plant	Interior Window Caulking	Room 230A - Metal Window	41	10
UMPS-PCB-9	Physical Plant	Exterior Window Glazing Compound	Women's Room - Wood Window	None Detected	0.61
UMPS-PCB-10	Physical Plant	Exterior Window Glazing Compound	McCarthy Office -Wood Window	None Detected	0.53
UMPS-PCB-11	Physical Plant	Exterior Window Caulking	Women's - Wood Window	None Detected	0.72
UMPS-PCB-12	Physical Plant	Exterior Window Caulking	McCarthy Office - Wood Window	None Detected	0.99
UMPS-PCB-13	Physical Plant	Exterior Window Caulking	Room 230A - Metal Window	None Detected	0.55
UMPS-PCB-14	Physical Plant	Exterior Window Caulking	Room 230A - Metal Window	None Detected	0.86
UMPS-PCB-15	Physical Plant	Exterior Window Glazing Compound	Room 230A - Metal Window	None Detected	0.71
UMPS-PCB-16	Physical Plant	Exterior Window Glazing Compound	Room 230A - Metal Window	None Detected	0.62

ATTACHMENT D

PCB LABORATORY ANALYTICAL RESULTS (CORE SAMPLING MATERIAL)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-38127-1

Client Project/Site: UMass Physical Plant

For:

ATC Associates, Inc.
73 William Franks Drive
West Springfield, Massachusetts 01089

Attn: Mr. Derrick Wissman



Authorized for release by:

12/20/2011 11:31:33 AM

Joe Chimi

Report Production Representative
joe.chimi@testamericainc.com

Designee for

Becky Mason
Project Manager II
becky.mason@testamericainc.com

LINKS

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results through

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The
Expert

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	19
QC Association	20
Surrogate Summary	22
QC Sample Results	23
Chronicle	24
Certification Summary	28
Receipt Checklists	30
Chain of Custody	31

Case Narrative

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Job ID: 360-38127-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/13/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7 C.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples PPR-PCB-01 (360-38127-1), PPR-PCB-02 (360-38127-2), PPR-PCB-03 (360-38127-3), PPR-PCB-04 (360-38127-4), PPR-PCB-05 (360-38127-5), PPR-PCB-06 (360-38127-6), PPR-PCB-07 (360-38127-7), PPR-PCB-08 (360-38127-8), PPR-PCB-09 (360-38127-9), PPR-PCB-10 (360-38127-10), PPR-PCB-11 (360-38127-11), PPR-PCB-12 (360-38127-12), PPR-PCB-13 (360-38127-13), PPR-PCB-14 (360-38127-14), PPR-PCB-15 (360-38127-15), PPR-PCB-16 (360-38127-16), PPR-PCB-17 (360-38127-17) and PPR-PCB-18 (360-38127-18) were analyzed for polychlorinated biphenyls (PCBs) in accordance with SW846 8082. The samples were prepared on 12/14/2011 and analyzed on 12/15/2011 and 12/16/2011.

PCB-1260 and DCB Decachlorobiphenyl failed the criteria low for the closing continuing calibration verification (CCV) (secondary column only).

No other difficulties were encountered during the PCBs analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

For samples PPR-PCB-01 (360-38127-1), PPR-PCB-02 (360-38127-2), PPR-PCB-03 (360-38127-3), PPR-PCB-04 (360-38127-4), PPR-PCB-05 (360-38127-5), PPR-PCB-06 (360-38127-6), PPR-PCB-07 (360-38127-7), PPR-PCB-08 (360-38127-8), PPR-PCB-09 (360-38127-9), PPR-PCB-10 (360-38127-10), PPR-PCB-11 (360-38127-11), PPR-PCB-12 (360-38127-12), PPR-PCB-13 (360-38127-13), PPR-PCB-14 (360-38127-14), PPR-PCB-15 (360-38127-15), PPR-PCB-16 (360-38127-16), PPR-PCB-17 (360-38127-17) and PPR-PCB-18 (360-38127-18), the laboratory assumes 100% solids. The percent solids results were entered on 12/15/2011.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-01

Lab Sample ID: 360-38127-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.73		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.92		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-02

Lab Sample ID: 360-38127-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.49		0.17	0.17	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.39		0.17	0.17	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-03

Lab Sample ID: 360-38127-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.48		0.17	0.17	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.35		0.17	0.17	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-04

Lab Sample ID: 360-38127-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.50		0.16	0.16	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.57		0.16	0.16	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-05

Lab Sample ID: 360-38127-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.36		0.11	0.11	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.30		0.11	0.11	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-06

Lab Sample ID: 360-38127-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.36		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.30		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-07

Lab Sample ID: 360-38127-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.73		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.73		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-08

Lab Sample ID: 360-38127-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.48		0.15	0.15	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.33		0.15	0.15	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-09

Lab Sample ID: 360-38127-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.46		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.28		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-10

Lab Sample ID: 360-38127-10

Detection Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-10 (Continued)

Lab Sample ID: 360-38127-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.63		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.47		0.13	0.13	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-11

Lab Sample ID: 360-38127-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.37		0.12	0.12	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.26		0.12	0.12	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-12

Lab Sample ID: 360-38127-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.47		0.12	0.12	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.30		0.12	0.12	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-13

Lab Sample ID: 360-38127-13

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.38		0.20	0.20	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.47		0.20	0.20	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-14

Lab Sample ID: 360-38127-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.24		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.15		0.14	0.14	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-15

Lab Sample ID: 360-38127-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.16		0.096	0.096	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.10		0.096	0.096	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-16

Lab Sample ID: 360-38127-16

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.20		0.10	0.10	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.21		0.10	0.10	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-17

Lab Sample ID: 360-38127-17

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.15		0.091	0.091	mg/Kg	1	⊗	8082	Total/NA
PCB-1254	0.098		0.091	0.091	mg/Kg	1	⊗	8082	Total/NA

Client Sample ID: PPR-PCB-18

Lab Sample ID: 360-38127-18

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.16		0.12	0.12	mg/Kg	1	⊗	8082	Total/NA

Method Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL WFD
Moisture	Percent Moisture	EPA	TAL WFD

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-38127-1	PPR-PCB-01	Solid	12/12/11 18:24	12/13/11 09:05
360-38127-2	PPR-PCB-02	Solid	12/12/11 18:32	12/13/11 09:05
360-38127-3	PPR-PCB-03	Solid	12/12/11 18:49	12/13/11 09:05
360-38127-4	PPR-PCB-04	Solid	12/12/11 19:02	12/13/11 09:05
360-38127-5	PPR-PCB-05	Solid	12/12/11 20:02	12/13/11 09:05
360-38127-6	PPR-PCB-06	Solid	12/12/11 20:06	12/13/11 09:05
360-38127-7	PPR-PCB-07	Solid	12/12/11 20:31	12/13/11 09:05
360-38127-8	PPR-PCB-08	Solid	12/12/11 20:36	12/13/11 09:05
360-38127-9	PPR-PCB-09	Solid	12/12/11 20:41	12/13/11 09:05
360-38127-10	PPR-PCB-10	Solid	12/12/11 20:51	12/13/11 09:05
360-38127-11	PPR-PCB-11	Solid	12/12/11 20:54	12/13/11 09:05
360-38127-12	PPR-PCB-12	Solid	12/12/11 21:01	12/13/11 09:05
360-38127-13	PPR-PCB-13	Solid	12/12/11 21:13	12/13/11 09:05
360-38127-14	PPR-PCB-14	Solid	12/12/11 21:27	12/13/11 09:05
360-38127-15	PPR-PCB-15	Solid	12/12/11 21:34	12/13/11 09:05
360-38127-16	PPR-PCB-16	Solid	12/12/11 21:39	12/13/11 09:05
360-38127-17	PPR-PCB-17	Solid	12/12/11 21:47	12/13/11 09:05
360-38127-18	PPR-PCB-18	Solid	12/12/11 21:54	12/13/11 09:05

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: PPR-PCB-01
Date Collected: 12/12/11 18:24
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-1
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1221	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1232	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1242	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1248	0.73		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1254	0.92		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1260	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1262	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
PCB-1268	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:36	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl		104		30 - 150			12/14/11 13:00	12/15/11 17:36	1
DCB Decachlorobiphenyl		101		30 - 150			12/14/11 13:00	12/15/11 17:36	1
Tetrachloro-m-xylene		114		30 - 150			12/14/11 13:00	12/15/11 17:36	1
Tetrachloro-m-xylene		111		30 - 150			12/14/11 13:00	12/15/11 17:36	1

Client Sample ID: PPR-PCB-02
Date Collected: 12/12/11 18:32
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-2
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1221	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1232	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1242	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1248	0.49		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1254	0.39		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1260	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1262	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
PCB-1268	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 17:57	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl		94		30 - 150			12/14/11 13:00	12/15/11 17:57	1
DCB Decachlorobiphenyl		91		30 - 150			12/14/11 13:00	12/15/11 17:57	1
Tetrachloro-m-xylene		103		30 - 150			12/14/11 13:00	12/15/11 17:57	1
Tetrachloro-m-xylene		115		30 - 150			12/14/11 13:00	12/15/11 17:57	1

Client Sample ID: PPR-PCB-03
Date Collected: 12/12/11 18:49
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-3
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1221	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1232	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1242	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1248	0.48		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1254	0.35		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1260	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
PCB-1262	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: PPR-PCB-03

Date Collected: 12/12/11 18:49

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-3

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.17	0.17	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:19	1
Surrogate									
DCB Decachlorobiphenyl	99		30 - 150				12/14/11 13:00	12/15/11 18:19	1
DCB Decachlorobiphenyl	97		30 - 150				12/14/11 13:00	12/15/11 18:19	1
Tetrachloro-m-xylene	101		30 - 150				12/14/11 13:00	12/15/11 18:19	1
Tetrachloro-m-xylene	106		30 - 150				12/14/11 13:00	12/15/11 18:19	1

Client Sample ID: PPR-PCB-04

Date Collected: 12/12/11 19:02

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-4

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1221	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1232	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1242	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1248	0.50		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1254	0.57		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1260	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1262	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
PCB-1268	ND		0.16	0.16	mg/Kg	⊗	12/14/11 13:00	12/15/11 18:41	1
Surrogate									
DCB Decachlorobiphenyl	100		30 - 150				12/14/11 13:00	12/15/11 18:41	1
DCB Decachlorobiphenyl	102		30 - 150				12/14/11 13:00	12/15/11 18:41	1
Tetrachloro-m-xylene	103		30 - 150				12/14/11 13:00	12/15/11 18:41	1
Tetrachloro-m-xylene	110		30 - 150				12/14/11 13:00	12/15/11 18:41	1

Client Sample ID: PPR-PCB-05

Date Collected: 12/12/11 20:02

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-5

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1221	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1232	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1242	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1248	0.36		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1254	0.30		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1260	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1262	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
PCB-1268	ND		0.11	0.11	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:02	1
Surrogate									
DCB Decachlorobiphenyl	93		30 - 150				12/14/11 13:00	12/15/11 19:02	1
DCB Decachlorobiphenyl	96		30 - 150				12/14/11 13:00	12/15/11 19:02	1
Tetrachloro-m-xylene	67		30 - 150				12/14/11 13:00	12/15/11 19:02	1
Tetrachloro-m-xylene	72		30 - 150				12/14/11 13:00	12/15/11 19:02	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: PPR-PCB-06
Date Collected: 12/12/11 20:06
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-6
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1221	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1232	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1242	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1248	0.36		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1254	0.30		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1260	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1262	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
PCB-1268	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		30 - 150				12/14/11 13:00	12/15/11 19:24	1
DCB Decachlorobiphenyl	102		30 - 150				12/14/11 13:00	12/15/11 19:24	1
Tetrachloro-m-xylene	113		30 - 150				12/14/11 13:00	12/15/11 19:24	1
Tetrachloro-m-xylene	117		30 - 150				12/14/11 13:00	12/15/11 19:24	1

Client Sample ID: PPR-PCB-07
Date Collected: 12/12/11 20:31
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-7
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1221	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1232	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1242	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1248	0.73		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1254	0.73		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1260	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1262	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
PCB-1268	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/15/11 19:46	1
DCB Decachlorobiphenyl	96		30 - 150				12/14/11 13:00	12/15/11 19:46	1
Tetrachloro-m-xylene	102		30 - 150				12/14/11 13:00	12/15/11 19:46	1
Tetrachloro-m-xylene	114		30 - 150				12/14/11 13:00	12/15/11 19:46	1

Client Sample ID: PPR-PCB-08
Date Collected: 12/12/11 20:36
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-8
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1221	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1232	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1242	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1248	0.48		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1254	0.33		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1260	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
PCB-1262	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: PPR-PCB-08

Date Collected: 12/12/11 20:36

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-8

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.15	0.15	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:07	1
Surrogate									
DCB Decachlorobiphenyl	95		30 - 150				12/14/11 13:00	12/15/11 20:07	1
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/15/11 20:07	1
Tetrachloro-m-xylene	99		30 - 150				12/14/11 13:00	12/15/11 20:07	1
Tetrachloro-m-xylene	105		30 - 150				12/14/11 13:00	12/15/11 20:07	1

Client Sample ID: PPR-PCB-09

Date Collected: 12/12/11 20:41

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-9

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1221	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1232	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1242	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1248	0.46		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1254	0.28		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1260	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1262	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
PCB-1268	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:29	1
Surrogate									
DCB Decachlorobiphenyl	100		30 - 150				12/14/11 13:00	12/15/11 20:29	1
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/15/11 20:29	1
Tetrachloro-m-xylene	102		30 - 150				12/14/11 13:00	12/15/11 20:29	1
Tetrachloro-m-xylene	108		30 - 150				12/14/11 13:00	12/15/11 20:29	1

Client Sample ID: PPR-PCB-10

Date Collected: 12/12/11 20:51

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-10

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1221	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1232	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1242	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1248	0.63		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1254	0.47		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1260	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1262	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
PCB-1268	ND		0.13	0.13	mg/Kg	⊗	12/14/11 13:00	12/15/11 20:51	1
Surrogate									
DCB Decachlorobiphenyl	99		30 - 150				12/14/11 13:00	12/15/11 20:51	1
DCB Decachlorobiphenyl	101		30 - 150				12/14/11 13:00	12/15/11 20:51	1
Tetrachloro-m-xylene	103		30 - 150				12/14/11 13:00	12/15/11 20:51	1
Tetrachloro-m-xylene	111		30 - 150				12/14/11 13:00	12/15/11 20:51	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: PPR-PCB-11
Date Collected: 12/12/11 20:54
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-11
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1221	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1232	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1242	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1248	0.37		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1254	0.26		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1260	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1262	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
PCB-1268	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		30 - 150				12/14/11 13:00	12/15/11 21:34	1
DCB Decachlorobiphenyl	99		30 - 150				12/14/11 13:00	12/15/11 21:34	1
Tetrachloro-m-xylene	98		30 - 150				12/14/11 13:00	12/15/11 21:34	1
Tetrachloro-m-xylene	108		30 - 150				12/14/11 13:00	12/15/11 21:34	1

Client Sample ID: PPR-PCB-12
Date Collected: 12/12/11 21:01
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-12
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1221	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1232	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1242	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1248	0.47		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1254	0.30		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1260	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1262	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
PCB-1268	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/15/11 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		30 - 150				12/14/11 13:00	12/15/11 21:56	1
DCB Decachlorobiphenyl	105		30 - 150				12/14/11 13:00	12/15/11 21:56	1
Tetrachloro-m-xylene	113		30 - 150				12/14/11 13:00	12/15/11 21:56	1
Tetrachloro-m-xylene	110		30 - 150				12/14/11 13:00	12/15/11 21:56	1

Client Sample ID: PPR-PCB-13
Date Collected: 12/12/11 21:13
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-13
Matrix: Solid
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1221	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1232	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1242	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1248	0.38		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1254	0.47		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1260	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
PCB-1262	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: PPR-PCB-13

Date Collected: 12/12/11 21:13

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-13

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.20	0.20	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:17	1
Surrogate									
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/15/11 22:17	1
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/15/11 22:17	1
Tetrachloro-m-xylene	101		30 - 150				12/14/11 13:00	12/15/11 22:17	1
Tetrachloro-m-xylene	109		30 - 150				12/14/11 13:00	12/15/11 22:17	1

Client Sample ID: PPR-PCB-14

Date Collected: 12/12/11 21:27

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-14

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1221	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1232	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1242	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1248	0.24		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1254	0.15		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1260	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1262	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
PCB-1268	ND		0.14	0.14	mg/Kg	⊗	12/14/11 13:00	12/15/11 22:39	1
Surrogate									
DCB Decachlorobiphenyl	80		30 - 150				12/14/11 13:00	12/15/11 22:39	1
DCB Decachlorobiphenyl	102		30 - 150				12/14/11 13:00	12/15/11 22:39	1
Tetrachloro-m-xylene	97		30 - 150				12/14/11 13:00	12/15/11 22:39	1
Tetrachloro-m-xylene	106		30 - 150				12/14/11 13:00	12/15/11 22:39	1

Client Sample ID: PPR-PCB-15

Date Collected: 12/12/11 21:34

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-15

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1221	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1232	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1242	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1248	0.16		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1254	0.10		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1260	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1262	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
PCB-1268	ND		0.096	0.096	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:01	1
Surrogate									
DCB Decachlorobiphenyl	97		30 - 150				12/14/11 13:00	12/15/11 23:01	1
DCB Decachlorobiphenyl	94		30 - 150				12/14/11 13:00	12/15/11 23:01	1
Tetrachloro-m-xylene	102		30 - 150				12/14/11 13:00	12/15/11 23:01	1
Tetrachloro-m-xylene	111		30 - 150				12/14/11 13:00	12/15/11 23:01	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: PPR-PCB-16

Date Collected: 12/12/11 21:39

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-16

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1221	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1232	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1242	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1248	0.20		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1254	0.21		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1260	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1262	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
PCB-1268	ND		0.10	0.10	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		30 - 150			12/14/11 13:00		12/15/11 23:23	1
DCB Decachlorobiphenyl	81		30 - 150			12/14/11 13:00		12/15/11 23:23	1
Tetrachloro-m-xylene	96		30 - 150			12/14/11 13:00		12/15/11 23:23	1
Tetrachloro-m-xylene	107		30 - 150			12/14/11 13:00		12/15/11 23:23	1

Client Sample ID: PPR-PCB-17

Date Collected: 12/12/11 21:47

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-17

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1221	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1232	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1242	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1248	0.15		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1254	0.098		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1260	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1262	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
PCB-1268	ND		0.091	0.091	mg/Kg	⊗	12/14/11 13:00	12/15/11 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		30 - 150			12/14/11 13:00		12/15/11 23:44	1
DCB Decachlorobiphenyl	98		30 - 150			12/14/11 13:00		12/15/11 23:44	1
Tetrachloro-m-xylene	101		30 - 150			12/14/11 13:00		12/15/11 23:44	1
Tetrachloro-m-xylene	114		30 - 150			12/14/11 13:00		12/15/11 23:44	1

Client Sample ID: PPR-PCB-18

Date Collected: 12/12/11 21:54

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-18

Matrix: Solid

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1221	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1232	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1242	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1248	0.16		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1254	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1260	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
PCB-1262	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: PPR-PCB-18

Lab Sample ID: 360-38127-18

Date Collected: 12/12/11 21:54

Matrix: Solid

Date Received: 12/13/11 09:05

Percent Solids: 100.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		0.12	0.12	mg/Kg	⊗	12/14/11 13:00	12/16/11 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		30 - 150				12/14/11 13:00	12/16/11 00:06	1
DCB Decachlorobiphenyl	98		30 - 150				12/14/11 13:00	12/16/11 00:06	1
Tetrachloro-m-xylene	102		30 - 150				12/14/11 13:00	12/16/11 00:06	1
Tetrachloro-m-xylene	108		30 - 150				12/14/11 13:00	12/16/11 00:06	1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

General Chemistry

Client Sample ID: PPR-PCB-01

Lab Sample ID: 360-38127-1

Date Collected: 12/12/11 18:24

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-02

Lab Sample ID: 360-38127-2

Date Collected: 12/12/11 18:32

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-03

Lab Sample ID: 360-38127-3

Date Collected: 12/12/11 18:49

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-04

Lab Sample ID: 360-38127-4

Date Collected: 12/12/11 19:02

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-05

Lab Sample ID: 360-38127-5

Date Collected: 12/12/11 20:02

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-06

Lab Sample ID: 360-38127-6

Date Collected: 12/12/11 20:06

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-07

Lab Sample ID: 360-38127-7

Date Collected: 12/12/11 20:31

Matrix: Solid

Date Received: 12/13/11 09:05

Analyte

Result

Qualifier

RL

RL

Unit

D

Prepared

Analyzed

Dil Fac

Percent Moisture

0.00

1.0

1.0

%

12/15/11 08:18

1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

General Chemistry (Continued)

Client Sample ID: PPR-PCB-07

Date Collected: 12/12/11 20:31

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-7

Matrix: Solid

Analyte

Percent Solids

Result

100

Qualifier

RL

RL

Unit

1.0

D

Prepared

Analyzed

12/15/11 08:18

1

Client Sample ID: PPR-PCB-08

Date Collected: 12/12/11 20:36

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-8

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-09

Date Collected: 12/12/11 20:41

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-9

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-10

Date Collected: 12/12/11 20:51

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-10

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-11

Date Collected: 12/12/11 20:54

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-11

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-12

Date Collected: 12/12/11 21:01

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-12

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample ID: PPR-PCB-13

Date Collected: 12/12/11 21:13

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-13

Matrix: Solid

Analyte

Percent Moisture

Result

0.00

Qualifier

RL

RL

1.0

%

D

Prepared

Analyzed

12/15/11 08:18

1

Percent Solids

100

1.0

1.0

%

12/15/11 08:18

1

Client Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

General Chemistry

Client Sample ID: PPR-PCB-14
Date Collected: 12/12/11 21:27
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-14
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			12/15/11 08:18	1
Percent Solids	100		1.0	1.0	%			12/15/11 08:18	1

Client Sample ID: PPR-PCB-15
Date Collected: 12/12/11 21:34
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-15
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			12/15/11 08:18	1
Percent Solids	100		1.0	1.0	%			12/15/11 08:18	1

Client Sample ID: PPR-PCB-16
Date Collected: 12/12/11 21:39
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-16
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			12/15/11 08:18	1
Percent Solids	100		1.0	1.0	%			12/15/11 08:18	1

Client Sample ID: PPR-PCB-17
Date Collected: 12/12/11 21:47
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-17
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			12/15/11 08:18	1
Percent Solids	100		1.0	1.0	%			12/15/11 08:18	1

Client Sample ID: PPR-PCB-18
Date Collected: 12/12/11 21:54
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-18
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.00		1.0	1.0	%			12/15/11 08:18	1
Percent Solids	100		1.0	1.0	%			12/15/11 08:18	1

Definitions/Glossary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

✉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

GC Semi VOA

Prep Batch: 84782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38127-1	PPR-PCB-01	Total/NA	Solid	3540C	5
360-38127-2	PPR-PCB-02	Total/NA	Solid	3540C	5
360-38127-3	PPR-PCB-03	Total/NA	Solid	3540C	5
360-38127-4	PPR-PCB-04	Total/NA	Solid	3540C	6
360-38127-5	PPR-PCB-05	Total/NA	Solid	3540C	6
360-38127-6	PPR-PCB-06	Total/NA	Solid	3540C	6
360-38127-7	PPR-PCB-07	Total/NA	Solid	3540C	8
360-38127-8	PPR-PCB-08	Total/NA	Solid	3540C	8
360-38127-9	PPR-PCB-09	Total/NA	Solid	3540C	9
360-38127-10	PPR-PCB-10	Total/NA	Solid	3540C	9
360-38127-11	PPR-PCB-11	Total/NA	Solid	3540C	10
360-38127-12	PPR-PCB-12	Total/NA	Solid	3540C	10
360-38127-13	PPR-PCB-13	Total/NA	Solid	3540C	11
360-38127-14	PPR-PCB-14	Total/NA	Solid	3540C	11
360-38127-15	PPR-PCB-15	Total/NA	Solid	3540C	12
360-38127-16	PPR-PCB-16	Total/NA	Solid	3540C	12
360-38127-17	PPR-PCB-17	Total/NA	Solid	3540C	13
360-38127-18	PPR-PCB-18	Total/NA	Solid	3540C	13
LCS 360-84782/2-A	Lab Control Sample	Total/NA	Solid	3540C	14
LCSD 360-84782/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	14
MB 360-84782/1-A	Method Blank	Total/NA	Solid	3540C	14

Analysis Batch: 84859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38127-1	PPR-PCB-01	Total/NA	Solid	8082	84782
360-38127-2	PPR-PCB-02	Total/NA	Solid	8082	84782
360-38127-3	PPR-PCB-03	Total/NA	Solid	8082	84782
360-38127-4	PPR-PCB-04	Total/NA	Solid	8082	84782
360-38127-5	PPR-PCB-05	Total/NA	Solid	8082	84782
360-38127-6	PPR-PCB-06	Total/NA	Solid	8082	84782
360-38127-7	PPR-PCB-07	Total/NA	Solid	8082	84782
360-38127-8	PPR-PCB-08	Total/NA	Solid	8082	84782
360-38127-9	PPR-PCB-09	Total/NA	Solid	8082	84782
360-38127-10	PPR-PCB-10	Total/NA	Solid	8082	84782
360-38127-11	PPR-PCB-11	Total/NA	Solid	8082	84782
360-38127-12	PPR-PCB-12	Total/NA	Solid	8082	84782
360-38127-13	PPR-PCB-13	Total/NA	Solid	8082	84782
360-38127-14	PPR-PCB-14	Total/NA	Solid	8082	84782
360-38127-15	PPR-PCB-15	Total/NA	Solid	8082	84782
360-38127-16	PPR-PCB-16	Total/NA	Solid	8082	84782
360-38127-17	PPR-PCB-17	Total/NA	Solid	8082	84782
360-38127-18	PPR-PCB-18	Total/NA	Solid	8082	84782
LCS 360-84782/2-A	Lab Control Sample	Total/NA	Solid	8082	84782
LCSD 360-84782/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	84782
MB 360-84782/1-A	Method Blank	Total/NA	Solid	8082	84782

General Chemistry

Analysis Batch: 84815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38127-1	PPR-PCB-01	Total/NA	Solid	Moisture	
360-38127-2	PPR-PCB-02	Total/NA	Solid	Moisture	

QC Association Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

General Chemistry (Continued)

Analysis Batch: 84815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38127-3	PPR-PCB-03	Total/NA	Solid	Moisture	5
360-38127-4	PPR-PCB-04	Total/NA	Solid	Moisture	6
360-38127-5	PPR-PCB-05	Total/NA	Solid	Moisture	7
360-38127-6	PPR-PCB-06	Total/NA	Solid	Moisture	8
360-38127-7	PPR-PCB-07	Total/NA	Solid	Moisture	9
360-38127-8	PPR-PCB-08	Total/NA	Solid	Moisture	10
360-38127-9	PPR-PCB-09	Total/NA	Solid	Moisture	11
360-38127-10	PPR-PCB-10	Total/NA	Solid	Moisture	12
360-38127-11	PPR-PCB-11	Total/NA	Solid	Moisture	13
360-38127-12	PPR-PCB-12	Total/NA	Solid	Moisture	14
360-38127-13	PPR-PCB-13	Total/NA	Solid	Moisture	15
360-38127-14	PPR-PCB-14	Total/NA	Solid	Moisture	
360-38127-15	PPR-PCB-15	Total/NA	Solid	Moisture	
360-38127-16	PPR-PCB-16	Total/NA	Solid	Moisture	
360-38127-17	PPR-PCB-17	Total/NA	Solid	Moisture	
360-38127-18	PPR-PCB-18	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (30-150)	DCB2 (30-150)	TCX1 (30-150)	TCX2 (30-150)
360-38127-1	PPR-PCB-01	104	101	114	111
360-38127-2	PPR-PCB-02	94	91	103	115
360-38127-3	PPR-PCB-03	99	97	101	106
360-38127-4	PPR-PCB-04	100	102	103	110
360-38127-5	PPR-PCB-05	93	96	67	72
360-38127-6	PPR-PCB-06	92	102	113	117
360-38127-7	PPR-PCB-07	98	96	102	114
360-38127-8	PPR-PCB-08	95	98	99	105
360-38127-9	PPR-PCB-09	100	98	102	108
360-38127-10	PPR-PCB-10	99	101	103	111
360-38127-11	PPR-PCB-11	88	99	98	108
360-38127-12	PPR-PCB-12	105	105	113	110
360-38127-13	PPR-PCB-13	98	98	101	109
360-38127-14	PPR-PCB-14	80	102	97	106
360-38127-15	PPR-PCB-15	97	94	102	111
360-38127-16	PPR-PCB-16	84	81	96	107
360-38127-17	PPR-PCB-17	90	98	101	114
360-38127-18	PPR-PCB-18	99	98	102	108
LCS 360-84782/2-A	Lab Control Sample	105	111	113	110
LCSD 360-84782/3-A	Lab Control Sample Dup	94	105	105	106
MB 360-84782/1-A	Method Blank	101	117	111	116

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 360-84782/1-A

Matrix: Solid

Analysis Batch: 84859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84782

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							RL	Unit	Dil Fac
PCB-1016	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1221	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1232	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1242	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1248	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1254	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1260	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1262	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1
PCB-1268	ND				0.10	0.10	mg/Kg		12/14/11 13:00	12/15/11 16:30	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
DCB Decachlorobiphenyl	101		30 - 150			12/14/11 13:00	12/15/11 16:30	1
DCB Decachlorobiphenyl	117		30 - 150			12/14/11 13:00	12/15/11 16:30	1
Tetrachloro-m-xylene	111		30 - 150			12/14/11 13:00	12/15/11 16:30	1
Tetrachloro-m-xylene	116		30 - 150			12/14/11 13:00	12/15/11 16:30	1

Lab Sample ID: LCS 360-84782/2-A

Matrix: Solid

Analysis Batch: 84859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84782

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
	Added	Result	Qualifier						
PCB-1016		0.500		0.458		mg/Kg		92	40 - 140
PCB-1260		0.500		0.458		mg/Kg		92	40 - 140

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits				
	Result	Qualifier				Unit	D	%Rec	Limits
DCB Decachlorobiphenyl	105		30 - 150						
DCB Decachlorobiphenyl	111		30 - 150						
Tetrachloro-m-xylene	113		30 - 150						
Tetrachloro-m-xylene	110		30 - 150						

Lab Sample ID: LCSD 360-84782/3-A

Matrix: Solid

Analysis Batch: 84859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84782

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
PCB-1016		0.500		0.456		mg/Kg		91	40 - 140	0	30
PCB-1260		0.500		0.479		mg/Kg		96	40 - 140	5	30

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits				
	Result	Qualifier				Unit	D	%Rec	Limits
DCB Decachlorobiphenyl	94		30 - 150						
DCB Decachlorobiphenyl	105		30 - 150						
Tetrachloro-m-xylene	105		30 - 150						
Tetrachloro-m-xylene	106		30 - 150						

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-01

Date Collected: 12/12/11 18:24

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-1

Matrix: Solid

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 17:36	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-02

Date Collected: 12/12/11 18:32

Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-2

Matrix: Solid

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 17:57	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-03

Lab Sample ID: 360-38127-3

Matrix: Solid

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 18:19	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-04

Lab Sample ID: 360-38127-4

Matrix: Solid

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 18:41	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-05

Lab Sample ID: 360-38127-5

Matrix: Solid

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 19:02	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-06

Date Collected: 12/12/11 20:06
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-6
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 19:24	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-07

Date Collected: 12/12/11 20:31
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-7
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 19:46	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-08

Date Collected: 12/12/11 20:36
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-8
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 20:07	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-09

Date Collected: 12/12/11 20:41
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-9
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 20:29	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-10

Date Collected: 12/12/11 20:51
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-10
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 20:51	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-11

Date Collected: 12/12/11 20:54
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-11

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 21:34	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-12

Date Collected: 12/12/11 21:01
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-12

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 21:56	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-13

Date Collected: 12/12/11 21:13
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-13

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 22:17	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-14

Date Collected: 12/12/11 21:27
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-14

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 22:39	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-15

Date Collected: 12/12/11 21:34
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-15

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 23:01	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Lab Chronicle

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Client Sample ID: PPR-PCB-16

Date Collected: 12/12/11 21:39
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-16

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 23:23	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-17

Date Collected: 12/12/11 21:47
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-17

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/15/11 23:44	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Client Sample ID: PPR-PCB-18

Date Collected: 12/12/11 21:54
Date Received: 12/13/11 09:05

Lab Sample ID: 360-38127-18

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			84782	12/14/11 13:00	MJM	TAL WFD
Total/NA	Analysis	8082		1	84859	12/16/11 00:06	BRB	TAL WFD
Total/NA	Analysis	Moisture		1	84815	12/15/11 08:18	BRB	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ATC Associates, Inc.
Project/Site: Umass Physical Plant

TestAmerica Job ID: 360-38127-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 CI F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli	ambient/source		
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO ₃) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ATC Associates, Inc.

Job Number: 360-38127-1

Login Number: 38127

List Source: TestAmerica Westfield

List Number: 1

Creator: Beaumier, Janine E

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Email Derrick.Wiss
Chain of Custody Form

WILLIAM C. WISSMAN & ASSOCIATES, INC.

53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

Chain of Custody Form

America V
81-88-006A

West America / FIELD

Page 2 of 2

8215 (1000)

8245 (1000)

ATTACHMENT E

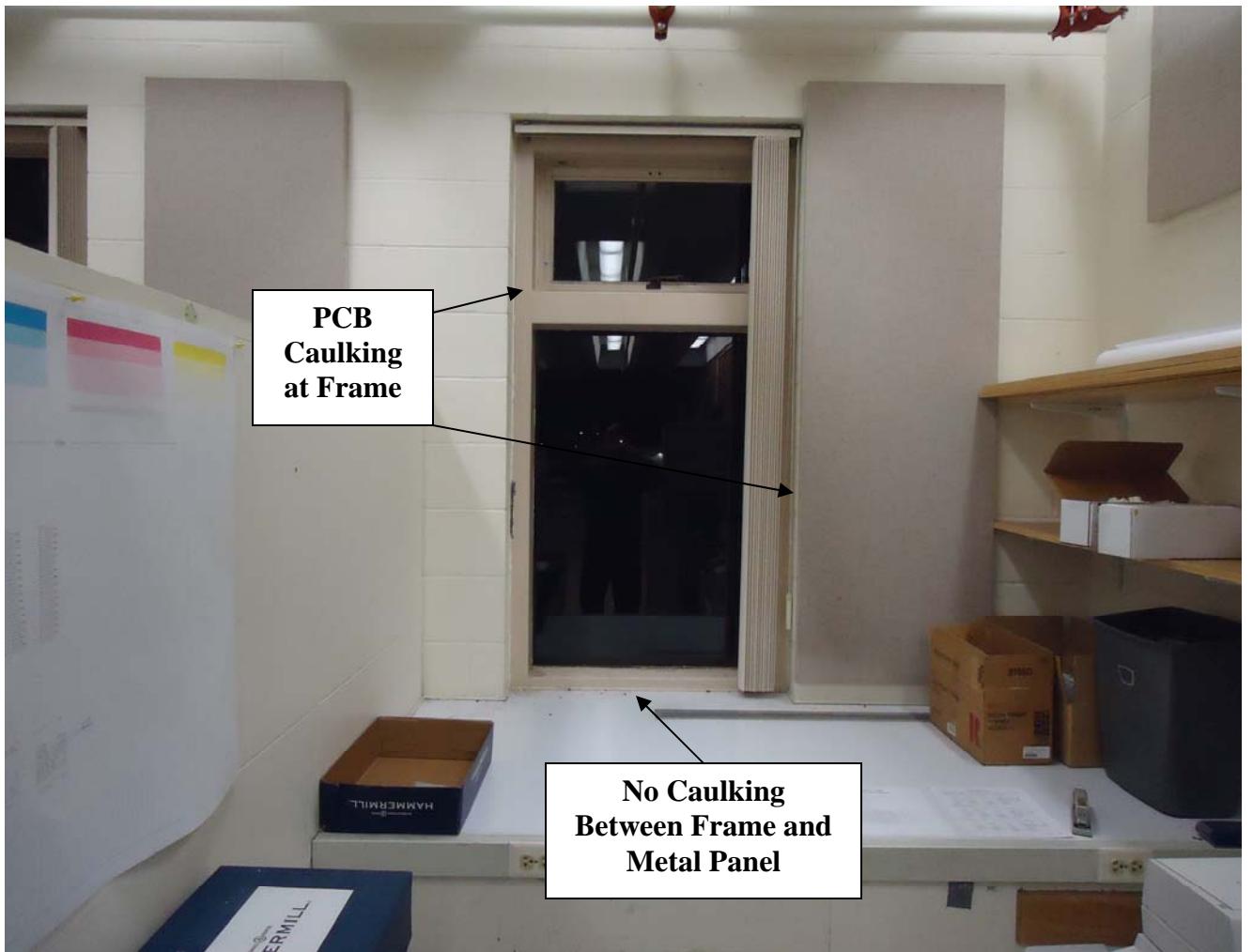
SUMMARY TABLE – PCB CORE SAMPLING

PHYSICAL PLANT 2 ND FLOOR RENOVATIONS SUMMARY OF POLYCHLORINATED BYPHENOL SAMPLING (CORE SAMPLING)					
SAMPLE NO	MATERIAL	LOCATION	RESULT PPM	AROCLORS	DETECTION LIMIT
PPR-PCB-01	Concrete Block	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, ½" Out From Frame (Interior)	1.65	1248, 1254	0.14
PPR-PCB-02	Concrete Block	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.88	1248, 1254	0.17
PPR-PCB-03	Concrete Block	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.83	1248, 1254	0.17
PPR-PCB-04	Mortar	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, ½" Out From Frame (Interior)	1.07	1248, 1254	0.16
PPR-PCB-05	Mortar	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.66	1248, 1254	0.11
PPR-PCB-06	Mortar	Room 230A, 1 st Window at Northeast Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.66	1248, 1254	0.13
PPR-PCB-07	Concrete Block	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, ½" Out From Frame (Interior)	1.46	1248, 1254	0.13
PPR-PCB-08	Concrete Block	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.81	1248, 1254	0.15
PPR-PCB-09	Concrete Block	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.74	1248, 1254	0.74
PPR-PCB-10	Mortar	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, ½" Out From Frame (Interior)	1.10	1248, 1254	0.13
PPR-PCB-11	Mortar	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.63	1248, 1254	0.12
PPR-PCB-12	Mortar	Room 230A, 5 th Window at Northwest Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.77	1248, 1254	0.20
PPR-PCB-13	Concrete Block	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, ½" Out From Frame (Interior)	0.85	1248, 1254	0.14
PPR-PCB-14	Concrete Block	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.39	1248, 1254	0.096

PHYSICAL PLANT 2 ND FLOOR RENOVATIONS SUMMARY OF POLYCHLORINATED BYPHENOL SAMPLING (CORE SAMPLING)					
SAMPLE NO	MATERIAL	LOCATION	RESULT PPM	AROCLORS	DETECTION LIMIT
PPR-PCB-15	Concrete Block	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.26	1248, 1254	0.10
PPR-PCB-16	Mortar	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, ½" Out From Frame (Interior)	0.41	1248, 1254	0.10
PPR-PCB-17	Mortar	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, 2" Out From Frame (Interior)	0.248	1248, 1254	0.091
PPR-PCB-18	Mortar	Room 230A, 4 th Window at Southwest Corner, ½" Core Sample, 4" Out From Frame (Interior)	0.16	1248	0.12

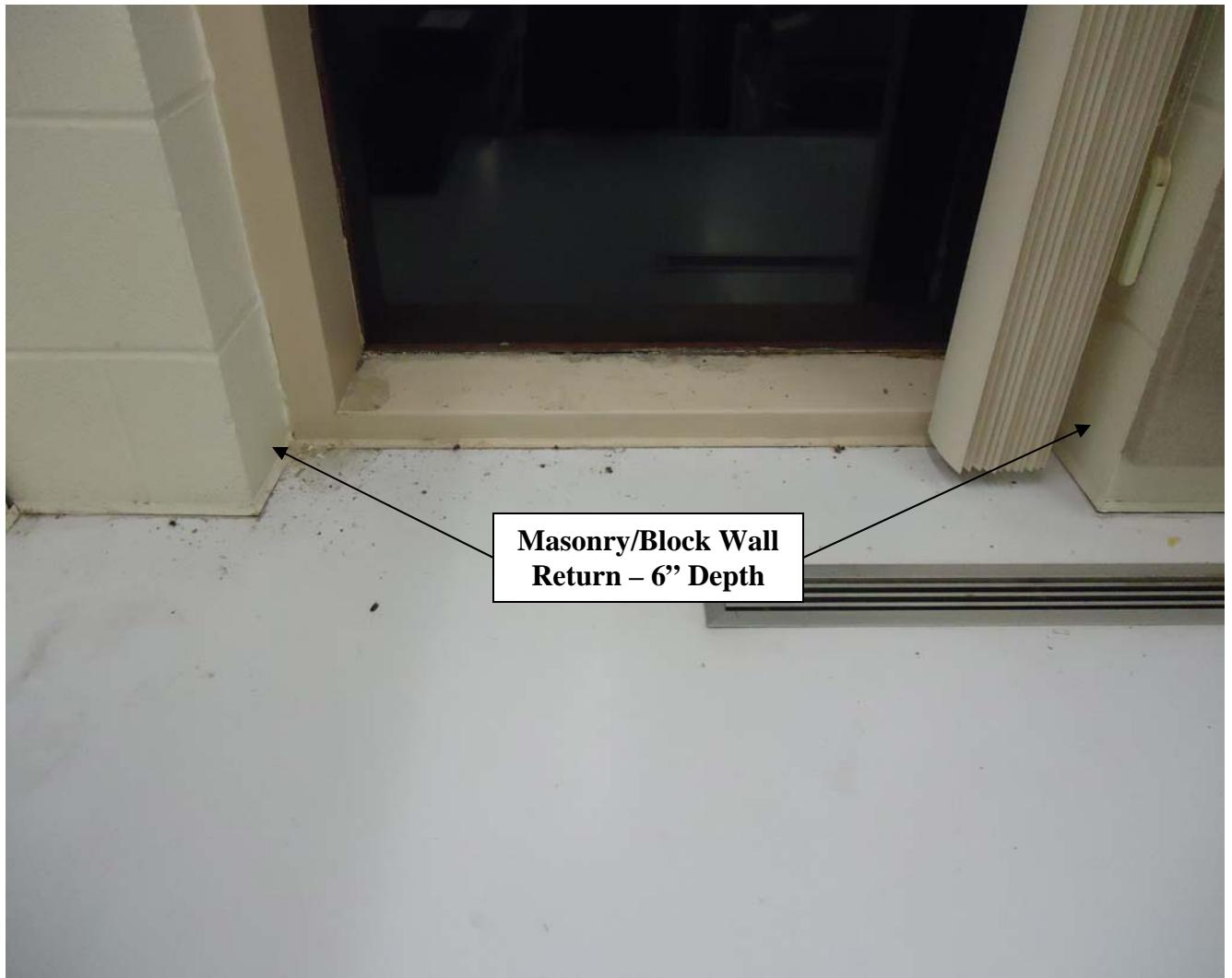
ATTACHMENT F

SITE PHOTOS (TYPICAL WINDOW UNIT)



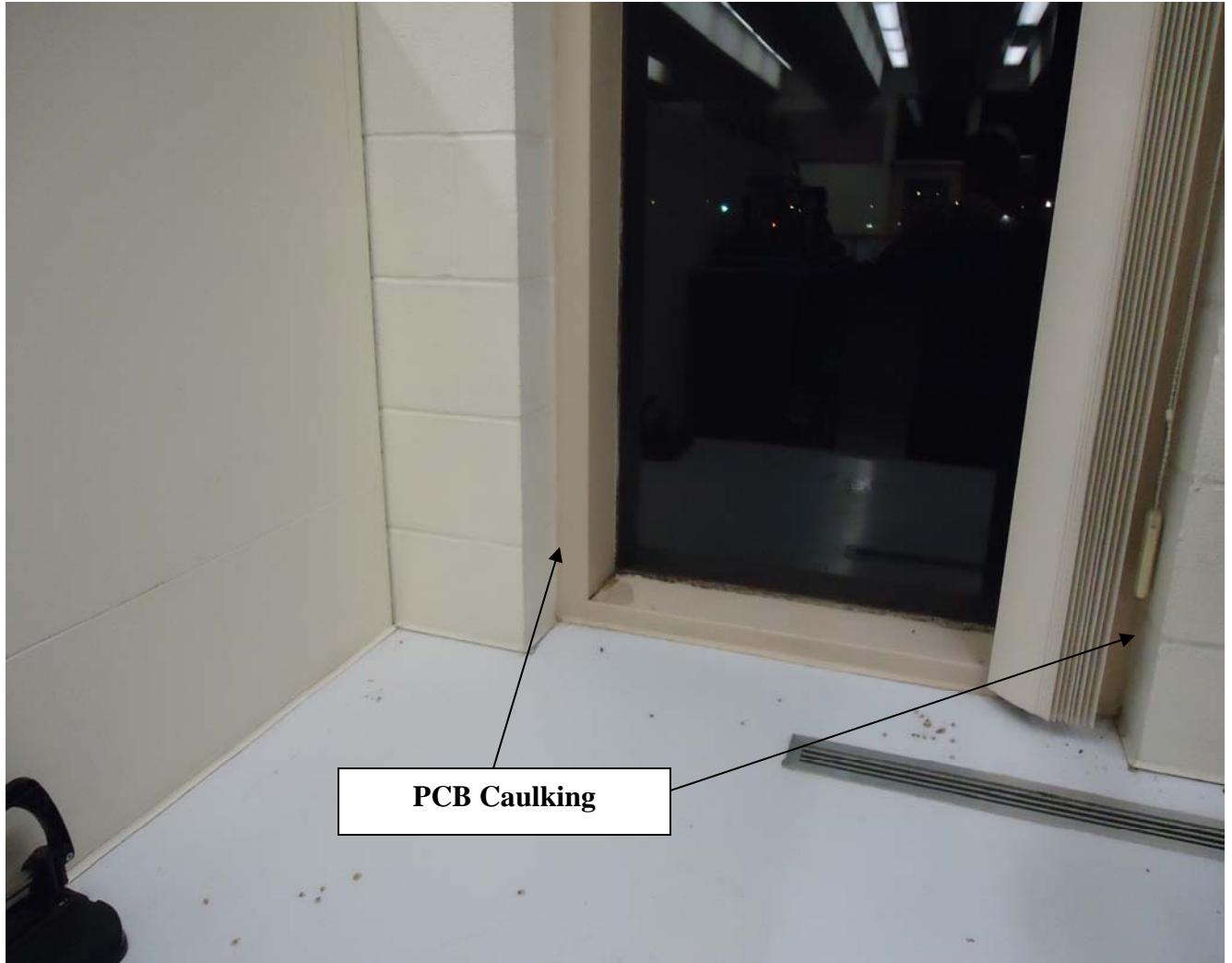
**TYPICAL WINDOW UNIT
ROOM 230A**

PHOTO 1



**TYPICAL WINDOW UNIT
ROOM 230A**

PHOTO 2

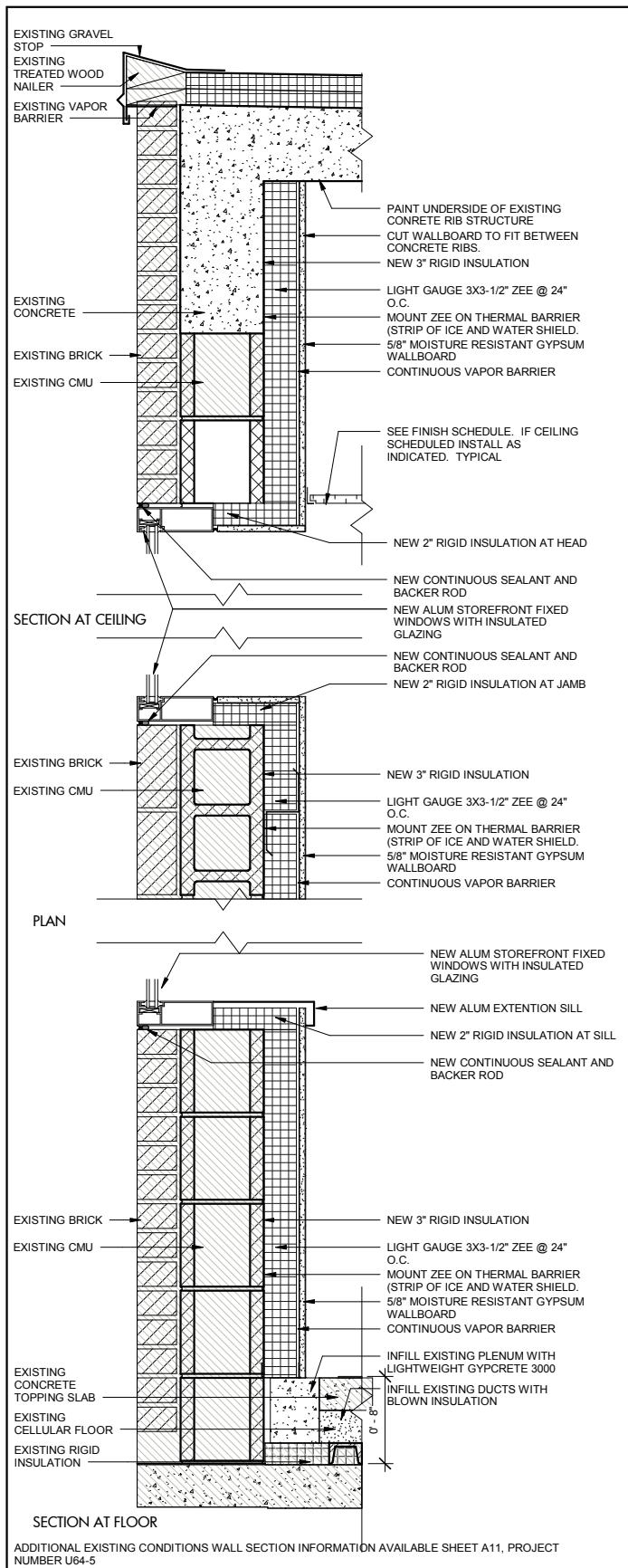


**TYPICAL WINDOW UNIT
ROOM 230A**

PHOTO 3

ATTACHMENT G

WINDOW DETAIL



ATTACHMENT H

WRITTEN CERTIFICATION



ATTACHMENT H

Certification

The undersigned owner of the property where the cleanup site is located and the party conducting the cleanup certify that all sampling plans, sampling collection procedures, sample preparation procedures, extraction procedures and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location indicated below and are available for EPA inspection, as set forth below.

Project: PCB Remediation Windows – Physical Plant 2nd floor Renovations

Document Location:

Environmental Health and Safety
117 Draper Hall
University of Massachusetts
40 Campus Center Way
Amherst, MA 01003

Property Owner and Party Conducting the Clean-Up

Authorized Signature:

Property Owner: _____ The University of Massachusetts

Authorized Signature: _____ Date: 3-22-12
Name of Authorized Representative

(print): Donald A. Robinson, CSP, P.E., Ph.D.
Title: Director, Environmental Health and Safety Special Assistant to Vice
Chancellor of Administration and Finance for Emergency Management